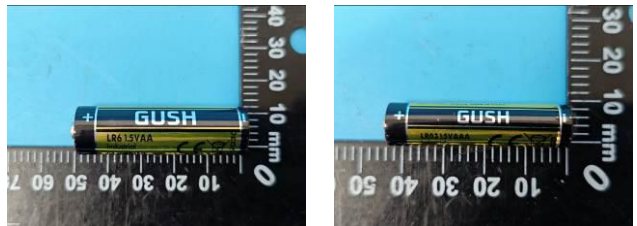


Prüfbericht-Nr.: <i>Test report no.:</i>	CN25S3GF 001	Auftrags-Nr.: <i>Order no.:</i>	180341238	Seite 1 von 20 <i>Page 1 of 20</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-07-22	
Auftraggeber: <i>Client:</i>	Jiaxing Gedd Technology Co., Ltd. / Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, 314113 Zhejiang, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Alkaline Battery			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	LR6, LR03			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	IEC 60086-1:2021 IEC 60086-2:2021 (partial clauses)			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-07-28	 <p>LR6 LR03</p>		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004054092-001			
Prüfzeitraum: <i>Testing period:</i>	2025-08-04 - 2025-08-14			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	<input checked="" type="checkbox"/> <u>Natty Shen</u>	genehmigt von: <i>authorized by:</i>	<input checked="" type="checkbox"/> <u>Herman Wang</u>	
Datum: <i>Date:</i>	2025-09-04 <small>Signed by: Natty Shen</small>	Ausstellungsdatum: <i>Issue date:</i>	2025-09-04 <small>Signed by: Herman Wang</small>	
Stellung / Position:	Natty Shen / PE	Stellung / Position:	Herman Wang / Authorizor	
Sonstiges / Other:	As required by the client, dimension check and MAD verification were performed on the provided samples.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

Prüfbericht-Nr.: CN25S3GF 001
Test report no.:

Seite 2 von 20
Page 2 of 20

Anmerkungen
Remarks

- | | |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

Test Report issued under the responsibility of:



TEST REPORT IEC 60086-1 & IEC 60086-2 Primary Battery - Part 1: General Primary Battery - Part 2: Physical and electrical specifications	
Report Number	See cover page
Date of issue	See cover page
Total number of pages	See cover page
Name of Testing Laboratory preparing the Report	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.
Applicant's name	Jiaxing Gedd Technology Co., Ltd.
Address	Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, 314113 Zhejiang, P.R. China
Test specification:	
Standard	IEC 60086-1:2021 in conjunction with IEC 60086-2:2021
Test procedure	Type test
Non-standard test method	N/A
TRF template used	IECEE OD-2020-F1:2021, Ed.1.4
Test Report Form No.	IEC60086_1&2B
Test Report Form(s) Originator	DEKRA Certification B.V.
Master TRF	Dated 2022-01-06
Copyright © 2022 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.	
This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.	
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The this Test Report and its contents can be verified by contacting the NCB, responsible for this	

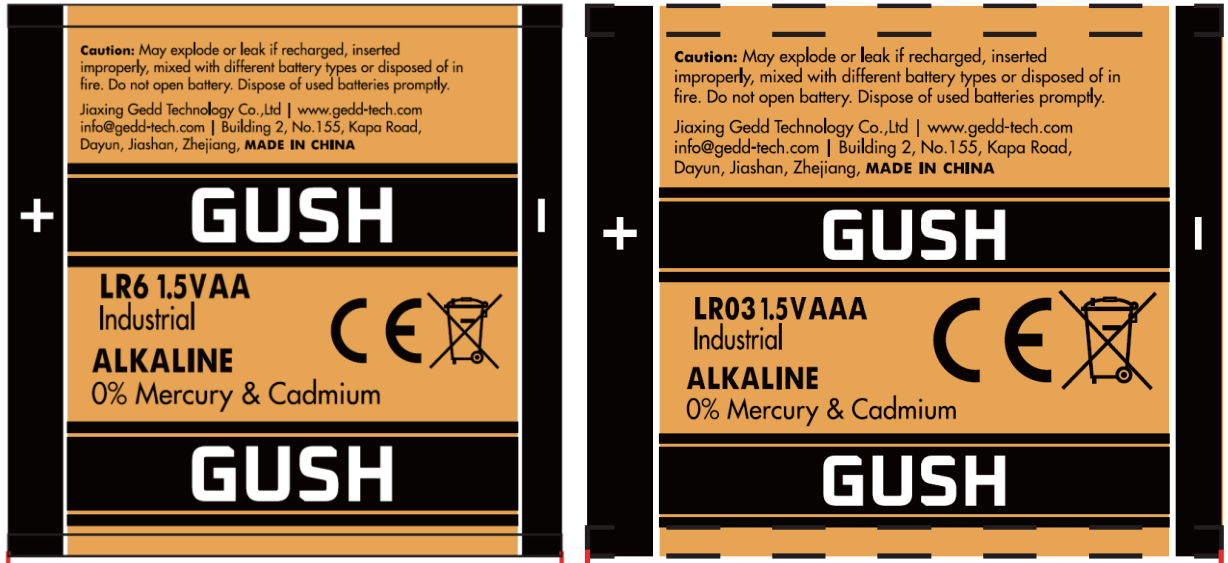
Test item description :	Alkaline Battery
Trade Mark(s) :	N/A
Manufacturer	Jiaxing Gedd Technology Co., Ltd. Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, 314113 Zhejiang, P.R. China
Model/Type reference :	LR6, LR03
Ratings	LR6: AA, 1,5 V LR03: AAA, 1,5 V

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):	
<input checked="" type="checkbox"/>	Testing Laboratory: TUV Rheinland / CCIC (Ningbo) Co., Ltd.
Testing location/ address :	Building C13, R&D Park, No. 32, Lane 299 Guanghai Road, National Hi-Tech Zone, Ningbo, 315048, P. R. China
Tested by (name, function, signature) :	See cover page
Approved by (name, function, signature) ... :	See cover page
<input type="checkbox"/>	Testing procedure: CTF Stage 1:
Testing location/ address :	
Tested by (name, function, signature) :	
Approved by (name, function, signature) ... :	
<input type="checkbox"/>	Testing procedure: CTF Stage 2:
Testing location/ address :	
Tested by (name + signature)	
Witnessed by (name, function, signature) . :	
Approved by (name, function, signature) ... :	
<input type="checkbox"/>	Testing procedure: CTF Stage 3:
<input type="checkbox"/>	Testing procedure: CTF Stage 4:
Testing location/ address :	
Tested by (name, function, signature) :	
Witnessed by (name, function, signature) . :	
Approved by (name, function, signature) ... :	
Supervised by (name, function, signature) :	

List of Attachments (including a total number of pages in each attachment): N/A	
Summary of testing:	
Tests performed (name of test and test clause): As required by the client, below tests <ul style="list-style-type: none"> • Application of portable lighting (LED) & motor/toy and dimension check for battery model LR6 • Application of portable lighting & toy and dimension check for battery model LR03 were performed according to EN IEC 60086-2:2021. Requirements of EN IEC 60086-1:2021 were also evaluated and passed.	Testing location: TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No. 32, Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo, 315048, P. R. China
Summary of compliance with National Differences (List of countries addressed): N/A	
<input type="checkbox"/> The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)	
Use of uncertainty of measurement for decisions on conformity (decision rule) :	
<input checked="" type="checkbox"/> No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").	
<input type="checkbox"/> Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)	
Information on uncertainty of measurement:	
The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.	
IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.	
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Seite 7 von 20
Page 7 of 20

Produktbeschreibung
Product description

1	Manufacturer name or trademark	Jiaxing Gedd Technology Co., Ltd.
2	Battery type (IEC / Common)	LR6 / AA LR03 / AAA
3	Nominal voltage	LR6: 1.5 V LR03: 1.5 V
4	Production Date	2025-07
5	Best Before Date	2030-07
6	Others (for example, measuring weight)	Weight: LR6: appx. 23.3 g LR03: appx. 11.4 g

Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Seite 8 von 20
Page 8 of 20

Produktbeschreibung
Product description

Battery surface label of LR6

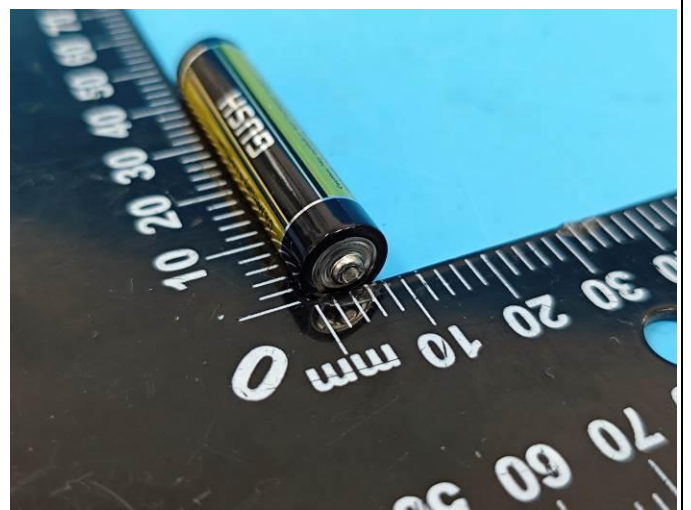
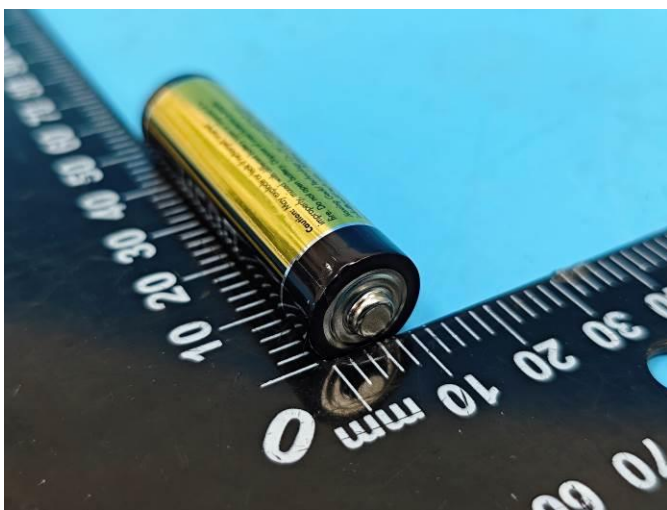
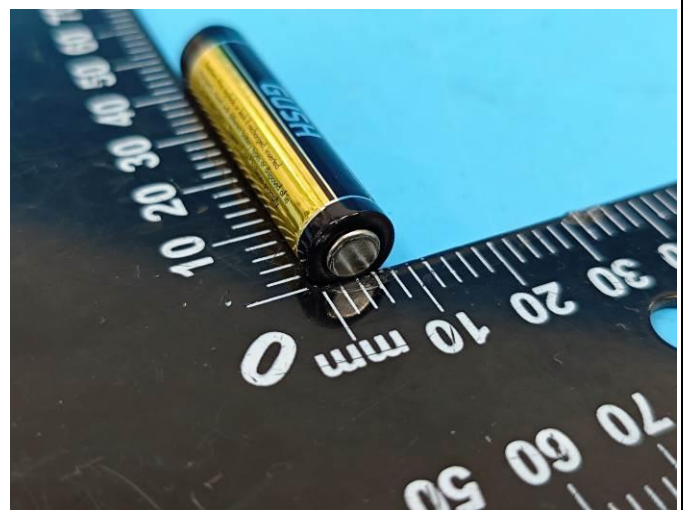
Battery surface label of LR03



Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Seite 9 von 20
Page 9 of 20

Produktbeschreibung
Product description



Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Absatz	EN IEC 60068-1:2021	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
4	REQUIREMENTS		P
4.1	General		P
4.1.1	Design		P
	Additionally, information on equipment design can be found in Annex B		P
4.1.2	Battery dimensions		P
	The dimensions for individual types of batteries are given in IEC 60086-2 and IEC 60086-3	In accordance with IEC 60086-2	P
4.1.3	Terminals		P
4.1.3.1	General		P
	Terminals are in accordance with Clause 6 of IEC 60086-2		P
	Their physical shape is designed in such a way that they ensure that the batteries make and maintain good electrical contact at all times		P
	They are made of materials that provide adequate electrical conductivity and corrosion protection		P
4.1.3.2	Contact pressure resistance		P
	Where stated in the battery specification tables or the individual specification sheets in IEC 60086-2, the following applies		P
	A force of 10 N applied through a steel ball of 1 mm diameter at the centre of each contact area for a period of 10 s does not cause any apparent deformation which might prevent satisfactory operation of the battery		P
4.1.3.3	Cap and base		P
	This type of terminal is used for batteries which have their dimensions specified according to Figures 1 and 7 of IEC 60086-2 and which have the cylindrical side of the battery insulated from the terminals		P
4.1.3.4	Cap and case		N/A
	This type of terminal is used for batteries which have their dimensions specified according to Figures 8, 9, 10, 14, 15 and 16 of IEC 60086-2, but in which the cylindrical side of the battery forms part of the positive terminal		N/A
4.1.3.5	Screw terminals		N/A
	This contact consists of a threaded rod in combination with either a metal or insulated metal nut		N/A
4.1.3.6	Flat contacts		P
	These are essentially flat metal surfaces adapted to make electrical contact by suitable contact mechanisms bearing against them		P

Prüfbericht-Nr.: CN25S3GF 001 Test Report No.:			
Absatz Clause	EN IEC 60068-1:2021 Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse - Bemerkungen Measuring results - Remarks	Bewertung Evaluation
4.1.3.7	Flat or spiral springs		N/A
	These contacts comprise flat metal strips or spirally wound wires which are in a form that provides pressure contact		N/A
4.1.3.8	Plug-in-sockets		N/A
	These are made up of a suitable assembly of metal contacts, mounted in an insulated housing or holding device and adapted to receive corresponding pins of a mating plug		N/A
4.1.3.9	Snap fasteners		N/A
4.1.3.9.1	General		N/A
	These contacts are composed of a combination comprising a stud (non-resilient) for the positive terminal and a socket (resilient) for the negative terminal		N/A
	They are suitable metal so as to provide efficient electrical connection when joined to the corresponding parts of an external circuit		N/A
4.1.3.9.2	Snap fastener		N/A
	This type of terminal consists of a stud for the positive terminal and a socket for the negative terminal. These are made from nickel plated steel or other suitable material		N/A
	They are designed to provide a secure physical and electrical connection, when fitted with similar corresponding parts for connection to an electrical circuit		N/A
4.1.3.10	Wire		N/A
	Wire leads are single or multi-strand flexible insulated tinned copper		N/A
	The positive terminal wire covering is red and the negative black		N/A
4.1.3.11	Other spring contacts or clips		N/A
	These contacts are generally used on batteries when the corresponding parts of the external circuit are not precisely known		N/A
	They are made of spring brass or of other material having similar properties		N/A
4.1.4	Classification (electrochemical system)		P
	Primary batteries are classified according to their electrochemical system		P
	Each system, with the exception of the zinc-ammonium chloride, zinc chloride-manganese dioxide system, has been allocated a letter denoting the particular system		P

Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Absatz <i>Clause</i>	EN IEC 60068-1:2021 <i>Anforderungen - Prüfungen / Requirements - Tests</i>	Messergebnisse - Bemerkungen <i>Measuring results - Remarks</i>	Bewertung <i>Evaluation</i>
	The electrochemical systems that have been standardized up to now are given in Table 1		P
4.1.5	Designation		P
	The designation of primary batteries is based on their physical parameters, their electrochemical system as well as modifiers, if needed		P
	A comprehensive explanation of the designation system (nomenclature) can be found in Annex C		P
4.1.6	Marking		P
4.1.6.1	General		P
	With the exception of small batteries too small to mark with all items (see 4.1.6.2), each battery is marked with the following information		P
	a) designation, IEC or common	LR6, AA LR03, AAA	P
	b) expiration of a recommended usage period or year and month or week of manufacture	Expires after 2030-07	P
	The year and month or week of manufacture may be in code		N/A
	c) polarity of the positive (+) terminal.....		P
	d) nominal voltage	1,5 V	P
	e) name or trade mark of the manufacturer or supplier :	See photo	P
	f) cautionary advice	See photo	P
4.1.6.2	Marking of smaller batteries		N/A
	a) Some batteries, mainly category 3 and category 4 batteries have a surface too small to accommodate all markings shown in 4.1.6.1		N/A
	For these batteries the designation 4.1.6.1a) and the polarity 4.1.6.1c) are marked on the battery.....	(See appended table)	N/A
	All other markings shown in 4.1.6.1 are given on the immediate packing instead of on the battery.....	(See appended table)	N/A
	b) For P-system batteries		N/A
	4.1.6.1a) are on the battery, the sealing tab or the package	(See appended table)	N/A
	4.1.6.1c) are marked on the sealing tab and/or on the battery	(See appended table)	N/A
	4.1.6.1b), 4.1.6.1d) and 4.1.6.1e) are given on the immediate packing instead of on the battery.....	(See appended table)	N/A
	The nominal voltage is marked either 1,4 V or 1,45 V :	(See appended table)	N/A

Prüfbericht-Nr.: CN25S3GF 001 Test Report No.:			
Absatz	EN IEC 60068-1:2021	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	c) Caution for ingestion of swallowable batteries are given :	(See appended table)	N/A
4.1.6.3	Marking of batteries regarding method of disposal		P
	Marking of batteries with respect to the method of disposal is in accordance with local legal requirements		P
4.1.7	Interchangeability: battery voltage		P
	Voltage range 1, $U_r = 1,4$ V: Batteries having a standard discharge voltage $m \times U_s$ equal to or within the range of $n \times 1,19$ V to $n \times 1,61$ V		P
	Voltage range 2, $U_r = 3,2$ V: Batteries having a standard discharge voltage $m \times U_s$ equal to or within the range of $n \times 2,72$ V to $n \times 3,68$ V		N/A
4.2	Performance	As required by the client, only MAD under specified applications were checked	N/A
4.2.1	Discharge performance		N/A
	Discharge performance of primary batteries is specified in IEC 60086-2		N/A
4.2.2	Dimensional stability		N/A
	The dimensions of batteries are conform with the relevant specified dimensions as given in IEC 60086-2 and IEC 60086-3 at all times during discharge testing under the standard conditions		N/A
4.2.3	Leakage		N/A
	When batteries are stored and discharged under the standard conditions given in this specification, no leakage occur		N/A
4.2.4	Open-circuit voltage limits		N/A
	The maximum open-circuit voltage of batteries does not exceed the values given in Table 1		N/A
4.2.5	Service output		N/A
	Discharge durations, initial and delayed, of batteries are meet the requirements given in IEC 60086-2		N/A
4.2.6	Safety		N/A
	When designing primary batteries, safety under conditions of intended use and foreseeable mis-use as prescribed in IEC 60086-4 and IEC 60086-5 are considered		N/A
4.2.7	Validity of testing		N/A
	Portable primary batteries are subjected to the tests, as required in the 60086 series. Test results remain valid until a design change or requirement revision has been made		N/A

Prüfbericht-Nr.: CN25S3GF 001 Test Report No.:			
Absatz Clause	EN IEC 60068-1:2021 Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse - Bemerkungen Measuring results - Remarks	Bewertung Evaluation
5	PERFORMANCE – TESTING		P
5.1	Capacity testing versus application and service output testing		P
	For the preparation of standard methods of measuring performance (SMMP) of consumer goods, refer to Annex E		P
	A capacity of a primary battery is established by electrical discharge tests as detailed in D.2.3		P
	However, under consumer usage conditions, the capacities realised from electrical discharge test methods can vary		P
	The following factors/variables dramatically impact on optimum capacity realisation		P
	a) The current demand from the external electrical circuit/device		P
	b) The frequency of current demand		P
	c) The minimum voltage at which the device will satisfactorily operate		P
	d) The temperature of operation		P
5.2	Discharge testing		P
5.2.1	General		P
	The discharge tests in this standard fall into two categories		P
	– application tests	As required by the client, only MAD under specified applications were checked	P
	– service output tests		N/A
5.2.2	Application tests		P
5.2.2.1	General		P
	Application tests are accelerated by discharge load, daily period duty cycle, or both. The specified values for load and time intermittency are take the following factors into consideration		P
	– discharge efficiency of the battery relative to the application		P
	– typical duty cycle use patterns for the application		P
	– total time to conduct the test typically not to exceed 30 days		P
5.2.2.2	Application tests with multiple loads		N/A
	For application test with multiple loads, the load order during a cycle starts with the heaviest load and move to the lightest load unless otherwise specified		N/A

Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Absatz	EN IEC 60068-1:2021	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
5.2.3	Service output tests		N/A
	For service output tests, the value of the load resistor are selected such that the service output approximates 30 days		N/A
5.3	Conformance check to a specified minimum average duration		P
	In order to check the conformance of a battery to any discharge tests specified in IEC 60086-2 and 60086-3, the test is carried out		P
5.4	Guidance for considering proposed value of minimum average duration		P
5.5	OCV testing		P
	Open-circuit voltage is measured with the voltage measuring equipment specified in 6.8.1		P
5.6	Insulation resistance		P
	For batteries with insulating labels, cases or jackets, the resistance between externally exposed surfaces of the battery and either terminal is equal to or greater than 5 MΩ :		P
5.7	Battery dimensions		P
	Dimensions are measured with the measuring equipment specified in 6.8.2		P
5.8	Leakage and deformation		N/A
	After the service output has been determined under the specified environmental conditions, the discharge is continued in the same way until the closed circuit voltage drops for the first time below 40 % of the nominal voltage of the battery		N/A
	The requirements of 4.1.3, 4.2.2 and 4.2.3 are met		N/A
6	PERFORMANCE – TEST CONDITIONS		P
6.1	Storage and discharge conditions		P
	Storage before discharge testing and the actual discharge test are carried out under well-defined conditions. Unless otherwise specified, the conditions given in Table 3 are apply :	(See appended table)	P
6.2	Commencement of discharge tests after storage		P
	The period between the completion of storage and the start of a delayed discharge test is not exceed 14 days		P
	During this period the batteries are kept at (20 ± 2) °C and (55 + 20 / -40) % RH (except for P-system batteries where the relative humidity is (55 ± 10) % RH)		P

Prüfbericht-Nr.: CN25S3GF 001 Test Report No.:			
Absatz Clause	EN IEC 60068-1:2021 Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse - Bemerkungen Measuring results - Remarks	Bewertung Evaluation
	At least one day in these conditions is allowed for normalization before starting a discharge test after storage at high temperature		N/A
6.3	Discharge test conditions		P
6.3.1	General		P
	In order to test a battery it is discharged as specified in IEC 60086-2 or IEC 60086-3 until the voltage on load drops for the first time below the specified end-point		P
6.3.2	Compliance		P
	When IEC 60086-2 or IEC 60086-3 specify service outputs for more than one discharge test, batteries are meet all of these requirements in order to comply with this specification		N/A
6.4	Load resistance		P
	When formulating new tests, the resistive load is, whenever possible, be as shown in Table 4 together with their decimal multiples or sub-multiples	In accordance with the resistive loads as specified in IEC 60086-2	N/A
6.5	Time periods		P
	The periods on-discharge and off-discharge are as specified in IEC 60086-2		P
	When formulating new tests, whenever possible, one of the following daily periods is adopted from Table 5		N/A
	Other cases are specified in IEC 60086-2, if necessary		P
6.6	Test condition tolerances		P
	Unless otherwise specified, the tolerances given in Table 6 are apply		P
6.7	Activation of 'P'-system batteries		N/A
	A period of at least 10 min is elapse between activation and the commencement of electrical measurement		N/A
6.8	Measuring equipment		P
6.8.1	Voltage measurement		P
6.8.2	Mechanical measurement		P
7	SAMPLING AND QUALITY ASSURANCE		N/A
	The use of production and incoming inspection sampling plans or product quality indices are agreed between the manufacturer and the purchaser	Not checked	N/A
8	BATTERY PACKAGING		N/A
	A code of practice for battery packaging, shipment, storage, use and disposal can be found in Annex G	No packaging provided	N/A

Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Seite 17 von 20
Page 17 of 20

Absatz	EN IEC 60068-1:2021	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
A	ANNEX A (NORMATIVE) CRITERIA FOR THE STANDARDIZATION OF BATTERIES		P
B	ANNEX B (INFORMATIVE) RECOMMENDATIONS FOR EQUIPMENT DESIGN		P
C	ANNEX C (NORMATIVE) DESIGNATION SYSTEM (NOMENCLATURE)		P
D	ANNEX D (INFORMATIVE) STANDARD DISCHARGE VOLTAGE U_s – DEFINITION AND METHOD OF DETERMINATION		P
E	ANNEX E (INFORMATIVE) PREPARATION OF STANDARD METHODS OF MEASURING PERFORMANCE (SMMP) OF CONSUMER GOODS		P
F	ANNEX F (INFORMATIVE) GUIDANCE FOR PROPOSING VALUE OF MINIMUM AVERAGE DURATION		P
G	ANNEX G (NORMATIVE) CODE OF PRACTICE FOR PACKAGING, SHIPMENT, STORAGE, USE AND DISPOSAL OF PRIMARY BATTERIES	Not checked	N/A
H	ANNEX H (INFORMATIVE) COMPLIANCE CHECKLIST		P

Prüfbericht-Nr.: CN25S3GF 001 Seite 18 von 20
Test Report No.: *Page 18 of 20*

Absatz	EN IEC 60068-2:2021	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

1	Dimension		
	Requirements: The dimensions of the test samples shall comply with the requirement in accordance with EN IEC 60086-2:2021.	See appendix table	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
2	MAD (Minimum average duration)		
	Requirements: Each minimum average duration shall comply with the requirements in accordance with EN IEC 60086-2:2021.	See appendix table	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Seite 19 von 20
Page 19 of 20

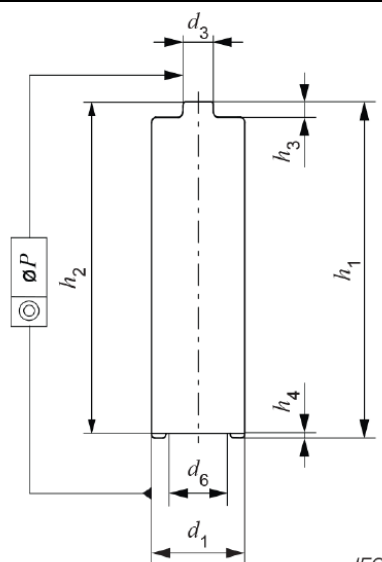
Absatz	EN IEC 60068-2:2021	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

Battery designation LR6

Applications	Load	Daily period	EV (V)	MAD
Portable lighting (LED)	3.9 Ω	4 min on, 56 min off for 8h per day	0.9 V	≥230 min
Motor/toy	3.9 Ω	1 h	0.8 V	≥5 h

Remark: the test was terminated until the battery was discharged to the end-point voltage.

Battery designation LR6

Dimensional drawing	Dimension	Required (mm)	Measured (mm)
 <p style="text-align: right;">IEC</p>	h1 (mm) max.	50.5	50.28
	h2 (mm) min.	49.5	50.28
	h3 (mm) min.	1.0	1.51
	h4 (mm) max.	0.5	0
	d1 (mm) max.	14.5	14.11
	d1 (mm) min.	13.7	14.01
	d3 (mm) max.	5.5	5.18
	d6 (mm) min.	7.0	9.10
	ΦP (mm) max.	0.25	0.08
	Common designation	AA	
	Vn (V)	1.5	
	OCV (V)	1.611	

Prüfbericht-Nr.: CN25S3GF 001
Test Report No.:

Seite 20 von 20
Page 20 of 20

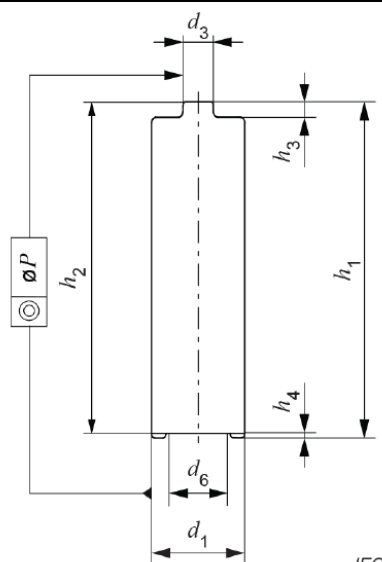
Absatz	EN IEC 60068-2:2021	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

Battery designation LR03

Applications	Load	Daily period	EV (V)	MAD
Portable lighting	5.1 Ω	4 min on, 56 min off for 8h per day	0.9 V	≥130 min
Toy	5.1 Ω	1 h	0.8 V	≥120 min

Remark: the test was terminated until the battery was discharged to the end-point voltage.

Battery designation LR03

Dimensional drawing	Dimension	Required (mm)	Measured (mm)
 <p style="text-align: right;">IEC</p>	h1 (mm) max.	44.5	44.10
	h2 (mm) min.	43.5	44.10
	h3 (mm) min.	0.8	0.95
	h4 (mm) max.	0.5	0
	d1 (mm) max.	10.5	10.35
	d1 (mm) min.	9.8	10.27
	d3 (mm) max.	3.8	3.53
	d6 (mm) min.	4.3	6.24
	ΦP (mm) max.	0.25	0.09
	Common designation	AAA	
	Vn (V)	1.5	
	OCV (V)	1.613	

- End of report -



ALKALINE BATTERY SPECIFICATION FOR:

LR03

Made by: Qinghua Wu

Audit by: Honghui Si

Date:18th,Jun,2024

(The manufacturer keeps privilege to modify the product specifications and data without notice)

Add: Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, Zhejiang Province, China
Tel: +86 18324324691

1, Scope

This specification is suitable for the performance of following batteries.

Model:LR03

Size:AAA

2, Chemical structure

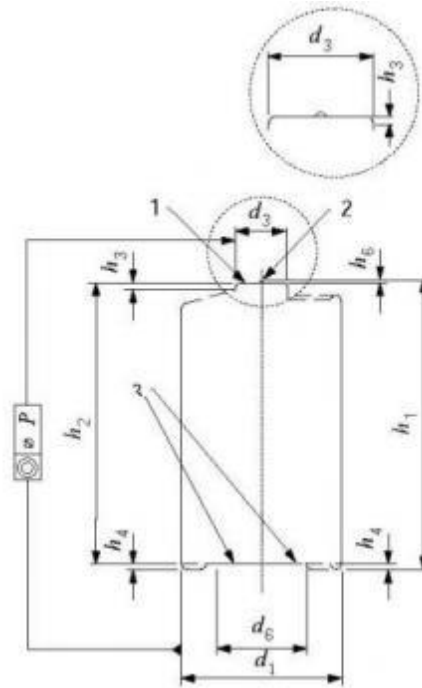
Cathode - High density manganese dioxide

Anode - Zinc gel

Electrolyte - Potassium hydroxide

3, Dimension (mm)

	Max	Min
h1:	44.5	-
h2:	-	43.5
h3 :-		0.8
h4:	0.5	-
d1:	10.5	9.8
d3:	3.8	-
d6:	-	4.3
ΦP:	0.25	-



4, Nominal voltage: 1.5V

5, Weight: about 11g

6, Typical Capacity

1100mAh with the discharge pattern 75ohm, 4h/d, end volt 0.9v.

7, Storage characteristics

The discharge capacity of battery will not less than 90% of original capacity after it stored for 12 months in a specific condition.

8, Heavy Metals:

Mercury.: less than 0.5PPM

Cadmium.: less than 10PPM

9, Electrical Characteristic

(condition: on-load resistance 3.9Ω, precision ±0.5%, time: 0.3S, temperature: 20°C ± 2°C。)

	On-load Voltage(V)	Off-load Voltage(V)	Instance current(A)
fresh Battery	1.60 above	1.45 above	5.5 above
stored for 12 months under Room Temp	1.58 above	1.43 above	4.0 above

10, Discharge capacity (20±2°C, RH: 45% ~ 75%)

Load	3.9Ω	5.1Ω	24Ω	5.1Ω	600mA	75Ω
Discharge pattern	24h/d	4min/h, 8h/d	15s/min, 8h/d	1h/d	10s/min, 1h/d	4h/d
End Volt	0.9V	0.9V	1.0V	0.8V	0.9V	0.9V
Discharge time	≥140min	≥240min	≥20h	≥260min	≥340times	≥70h

11, Safety Performance

(1) Spillage proof test at over-discharge

The number of samples: 9

Test condition: 20±2°C, relative humidity 45%-75%

Test method: 10Ω continuous discharge to 0.6V

Requirements: no spillage at eyesight, the distortion of total height of the battery will not exceed 0.2mm, the max allowable value.

Standard: 0/9

(2) Spillage proof test at high temperature

The number of samples: 40

Test condition: 60±2°C, relative humidity 85%-95%

Test method: Under the prescriptive test conditions, the samples are stored for 20 days.

Then they are taken out and placed under 20±2°C, relative humidity 45%-75% conditions for 4 to 24 hours for observation.

Requirements: no spillage at eyesight, the distortion of total height of the battery will not exceed 0.2mm, the max allowable value.

Standard: 0/40

(3)The performance of explosion protection due to the external short circuit

The number of samples: 10

Test condition: $20\pm 2^{\circ}\text{C}$, relative humidity 45%-75%

Test method: Under the prescriptive test conditions, external short circuit lasts for 24 hours

Requirements : no separation occurs between the negative terminal and the body of the battery.

Standard: 0/10

(4)Reversible charge

The number of groups: 5

Test condition: $20\pm 2^{\circ}\text{C}$,relative humidity 45%-75%

Test method: 4 pcs of battery are in series connected and one of them is under incorrect polarity for 24 hours.

Requirements: no explosion will occur.

Standard: 0/5

12, Guarantee period: 5 years



13. Label on the product:

The following items are labeling on the battery surface:

- (1) Model: AAA LR03
- (2) Trademark: GUSH
- (3) Nominal voltage: 1.5V
- (4) Polarity: “+”“—”
- (5) Warning:Insert correctly.Do not recharge.
- (6) 0% Mercury 0% Cadmium
- (7) Made in China

13. Precautions of use:

- (1) The battery is designed not to be recharged, the forced recharge will result in the spillage or the risk of equipment damage.
- (2) The labels “+”“—” for the battery should installed correctly according to the directions specified by the equipment to be used.
- (3) Short circuit, heating, burning and unsealing for the battery are forbidden.

Prüfbericht-Nr.: Test report no.:	CN25LDUR 001	Auftrags-Nr.: Order no.:	180341238	Seite 1 von 20 Page 1 of 20
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-07-22	
Auftraggeber: Client:	Jiaxing Gedd Technology Co., Ltd. / Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, 314113 Zhejiang, P.R. China			
Prüfgegenstand: Test item:	Alkaline Battery			
Bezeichnung / Typ-Nr.: Identification / Type no.:	LR6, LR03			
Auftrags-Inhalt: Order content:	Test report			
Prüfgrundlage: Test specification:	REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023			
Wareneingangsdatum: Date of sample receipt:	2025-07-28	 		
Prüfmuster-Nr.: Test sample no.:	A004054092-001			
Prüfzeitraum: Testing period:	2025-07-29 - 2025-08-21			
Ort der Prüfung: Place of testing:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<input checked="" type="checkbox"/> <u>Natty Shen</u>	genehmigt von: authorized by:	<input checked="" type="checkbox"/> <u>Qiang Ye</u>	
Datum: Date:	2025-09-04 <small>Signed by: Natty Shen</small>	Ausstellungsdatum: Issue date:	2025-09-04 <small>Signed by: Qiang Ye</small>	
Stellung / Position:	Natty Shen / PE	Stellung / Position:	Qiang Ye / Authorizor	
Sonstiges / Other:	Article 6, 13 and 18 of (EU) 2023/1542 are evulated for portable battery in this test report, details see next pages.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

Prüfbericht-Nr.: CN25LDUR 001
Test report no.:

Seite 2 von 20
Page 2 of 20

Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

Prüfbericht-Nr.: CN25LDUR 001
 Test report no.:

Seite 3 von 20
 Page 3 of 20

Produktbeschreibung
 Product description

1	Produktdetails <i>Product details</i>	Alkaline Battery
2	Maße / Gewicht <i>Dimensions / Weight</i>	LR6: Φ 14.1mm x 50.3mm / appr. 23.3g LR03: Φ 10.3mm x 44.1mm / appr. 11.4g
3	Bedienelemente <i>Operating elements</i>	/
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	/
5	Verwendete Materialien <i>Used materials</i>	/
6	Sonstiges <i>Other</i>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
7	Prüfmusterbereitstellung: <i>Test sample obtaining</i>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:

Prüfbericht-Nr.: CN25LDUR 001
Test report no.:

Seite 4 von 20
Page 4 of 20

Produktbeschreibung
Product description

Battery LR6



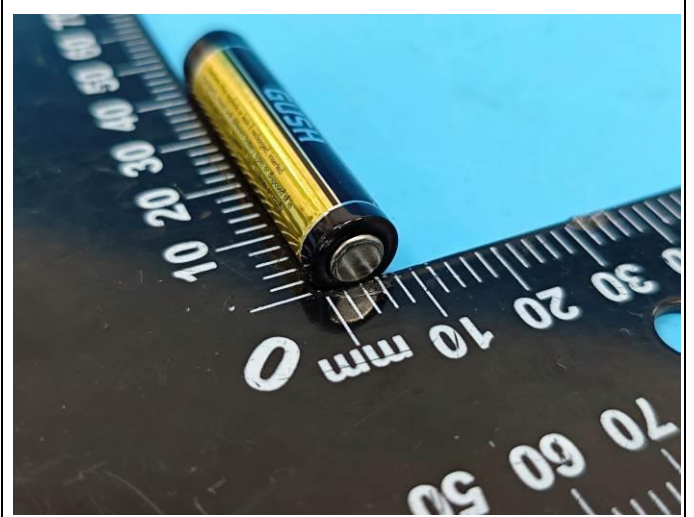
Battery LR03



Prüfbericht-Nr.: CN25LDUR 001
Test report no.:

Seite 5 von 20
Page 5 of 20

Produktbeschreibung
Product description



Caution: May explode or leak if recharged, inserted improperly, mixed with different battery types or disposed of in fire. Do not open battery. Dispose of used batteries promptly.

Jiaxing Gedd Technology Co.,Ltd | www.gedd-tech.com
info@gedd-tech.com | Building 2, No.155, Kapa Road,
Dayun, Jiashan, Zhejiang, **MADE IN CHINA**

+

GUSH

LR6 1.5VAA

Industrial

ALKALINE

0% Mercury & Cadmium



GUSH

Caution: May explode or leak if recharged, inserted improperly, mixed with different battery types or disposed of in fire. Do not open battery. Dispose of used batteries promptly.

Jiaxing Gedd Technology Co.,Ltd | www.gedd-tech.com
info@gedd-tech.com | Building 2, No.155, Kapa Road,
Dayun, Jiashan, Zhejiang, **MADE IN CHINA**

+

GUSH

LR03 1.5VAAA

Industrial

ALKALINE

0% Mercury & Cadmium



GUSH

Test Report issued under the responsibility of:



Test Report

Report Reference No.: CN25LDUR 001

Date of issue: See cover page

Total number of pages: See cover page

Applicant's name: Jiaxing Gedd Technology Co., Ltd.

Address: Building 2, No.155, Kapa Road, Dayun Town, Jiashan County,
Jiaxing City, 314113 Zhejiang, P.R. China

Test specification:

Standard: See cover page

Test procedure : Type test

Non-standard test method.....: N/A

Test Report Form(s) Originator....: TÜV Rheinland / CCIC (Ningbo) Co., Ltd.

Master TRF: Dated 2024-07

Test item description: Alkaline Battery

Trade Mark.....: N/A

Manufacturer: Same as applicant

General disclaimer :

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.

Testing procedure and testing location:	
<input checked="" type="checkbox"/>	Testing Laboratory: TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China
Testing location/ address.....: TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China	
<hr/>	
<input type="checkbox"/>	Testing procedure: TMP/CTF Stage 1: Testing location/ address.....:
Tested by (name + signature):	
Approved by (name + signature):	
<hr/>	
<input type="checkbox"/>	Testing procedure: WMT/CTF Stage 2: Testing location/ address.....:
Tested by (name + signature):	
Witnessed by (name + signature).....:	
Approved by (name + signature):	
<hr/>	
<input type="checkbox"/>	Testing procedure: SMT/CTF Stage 3 or 4: Testing location/ address.....:
Tested by (name + signature):	
Witnessed by (name + signature).....:	
Approved by (name + signature):	
Supervised by (name + signature):	

Possible test case verdicts:

- test case does not apply to the test object.....: N/A (Not Applicable)
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing.....:
Date of receipt of test item: See coverage

Date (s) of performance of tests: See coverage

Test item particulars:

Battery category:

- Portable Batteries (including button cells),
- Portable batteries of general use (excluding button cells),
- SLI batteries,
- LMT batteries,
- EV batteries,
- Industrial batteries \leq 2kWh,
- Industrial batteries $>$ 2kWh,
- Industrial batteries \leq 2kWh - Stationary battery energy storage system,
- Industrial batteries $>$ 2kWh - Stationary battery energy storage system

Type: battery cell, battery module, battery packRechargeability: rechargeable, non-rechargeable

Copy of marking plate:

See “photo of description”.

Remark: The name and address of EU importer shall be added before the product is placed on the EU market.

The height of CE logo was measured more than 5 mm.

General product information:

The products are alkaline battery, intended for using as power source for portable lighting or toy application and are considered as portable battery of general use as defined in (EU) 2023/1542.

Summary of testing:

The product meets the requirements of:

Category: Portable batteries (including button cells)			
Evaluated	Article	Requirement	Stage from
<input checked="" type="checkbox"/>	Article 6(1)	Restriction of substances - REACH (EC)1907/2006 Annex XVII	2024-02-18
<input checked="" type="checkbox"/>	Article 6 (Annex I point 1)	Restriction of substances – Mercury	2024-02-18
<input checked="" type="checkbox"/>	Article 6 (Annex I point 2)	Restriction of substances – Cadmium	2024-02-18
<input checked="" type="checkbox"/>	Article 6 (Annex I point 3)	Restriction of substances – Lead	2024-08-18
<input type="checkbox"/>	Article 9	Performance and durability requirements for portable batteries of general use	2028-08-18
<input type="checkbox"/>	Article 11	Removability and replaceability of portable batteries and LMT batteries	2027-02-18
<input type="checkbox"/>	Article 13(1)	Labeling and marking – General information	2026-08-18
<input type="checkbox"/>	Article 13(2)	Labeling and marking – Capacity label	2026-08-18
<input type="checkbox"/>	Article 13(3)	Labeling and marking – Use duration information, non-rechargeable label	2026-08-18
<input checked="" type="checkbox"/>	Article 13(4)	Labeling and marking – Separate collection symbol	2025-08-18
<input checked="" type="checkbox"/>	Article 13(5)	Labeling and marking – Cadmium or Lead information	2024-02-18
<input type="checkbox"/>	Article 13(6)(b)	Labeling and marking – QR code	2027-02-18
<input checked="" type="checkbox"/>	Article 13(7)	Labeling and marking – Location	2024-02-18
<input checked="" type="checkbox"/>	Article 18	EU declaration of conformity	2024-02-18

NOTE:

It is evaluated to the date of issuing of the report. Further additional applicable requirements may apply after issue of this reports depending on the further published implementing and delegated acts to this regulation.

Attachment 1: Chemical test report according with Article 6 of (EU) 2023/1542 (180341238a 001, 15 pages)

deviation(s) found

no deviations found

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict

Chapter I	General provisions		P
Chapter II	Sustainability and safety requirements		P
Article 6	Restrictions on substances		
1.	In addition to the restrictions set out in Annex XVII to Regulation (EC) No 1907/2006 and in Article 4(2), point (a), of Directive 2000/53/EC, batteries shall not contain substances for which Annex I to this Regulation contains a restriction unless the conditions of that restriction are complied with.	See Attachment 1	P
2.	In the event of an unacceptable risk to human health or the environment, arising from the use of a substance in the manufacture of batteries or from the presence of a substance in the batteries when they are placed on the market, or arising during their subsequent life cycle stages, including during repurposing or the treatment of waste batteries, that is not adequately controlled and needs to be addressed on a Union-wide basis, the Commission shall adopt a delegated act in accordance with Article 89 to amend the restrictions in Annex I, pursuant to the procedure laid down in Articles 86, 87 and 88.		P
3.	Restrictions adopted pursuant to paragraph 2 of this Article shall not apply to the use of a substance in scientific research and development as defined in Article 3, point (23), of Regulation (EC) No 1907/2006, carried out in relation to batteries.		P
4.	Where a restriction adopted pursuant to paragraph 2 of this Article does not apply to product and process orientated research and development, as defined in Article 3, point (22), of Regulation (EC) No 1907/2006, that exemption, as well as the maximum quantity of the substance exempted, shall be specified in Annex I to this Regulation.		N/A
5.	By 31 December 2027, the Commission, assisted by the European Chemicals Agency set up under Regulation (EC) No 1907/2006 ('the Agency'), shall prepare a report on substances of concern, namely substances having an adverse effect on human health or the environment or hampering recycling for safe and high quality secondary raw materials, present in batteries or used in their manufacture. The Commission shall submit that report to the European Parliament and to the Council detailing its findings and shall consider the appropriate follow-up measures including the adoption of delegated acts as referred to in paragraph 2 of this Article.		N/A
ANNEX I	RESTRICTION ON SUBSTANCES		P

2023/1542											
Clause	Requirement + Test	Result - Remark	Verdict								
	<table border="1"> <thead> <tr> <th>Column 1 Designation of the substance or group of substances</th> <th>Column 2 Conditions of restriction</th> </tr> </thead> <tbody> <tr> <td>1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds</td> <td>Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.0005 % of mercury (expressed as mercury metal) by weight.</td> </tr> <tr> <td>2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds</td> <td>Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.002 % of cadmium (expressed as cadmium metal) by weight.</td> </tr> <tr> <td>3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds</td> <td>1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0.01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.</td> </tr> </tbody> </table>	Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction	1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.0005 % of mercury (expressed as mercury metal) by weight.	2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.002 % of cadmium (expressed as cadmium metal) by weight.	3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0.01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.		P
Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction										
1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.0005 % of mercury (expressed as mercury metal) by weight.										
2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.002 % of cadmium (expressed as cadmium metal) by weight.										
3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0.01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.										
Article 7	Carbon footprint of electric vehicle batteries, rechargeable industrial batteries and LMT batteries	Not such battery	N/A								
Article 8	Recycled content in industrial batteries, electric vehicle batteries, LMT batteries and SLI batteries	Not such battery	N/A								
Article 9	Performance and durability requirements for portable batteries of general use		N/A								
1.	From 18 August 2028 or 24 months after the date of entry into force of the delegated act referred to in paragraph 2, whichever is the latest, portable batteries of general use, excluding button cells, shall meet the minimum values for the electrochemical performance and durability parameters set out in Annex III as laid down in the delegated act adopted pursuant to paragraph 2.	Shall be compliant from 2028-08-18	N/A								
2.	By 18 August 2027, the Commission shall adopt a delegated act in accordance with Article 89 to supplement this Regulation by establishing mandatory minimum values for the electrochemical performance and durability parameters set out in Annex III for portable batteries of general use, excluding button cells.		N/A								
	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend the minimum values referred to in the first subparagraph or add electrochemical performance and durability parameters to those set out in Annex III in view of technical and scientific progress.		N/A								
	In preparing the delegated act referred to in the first subparagraph, the Commission shall consider the need to reduce the life cycle environmental impact of portable batteries of general use, including by means of increasing the resource efficiency thereof, and shall take into consideration relevant international standards and labelling schemes.		N/A								


2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	The Commission shall also ensure that the provisions laid down by the delegated act referred to in the first subparagraph do not have a significant adverse impact on the safety and functionality of those batteries or the appliances, light means of transport or other vehicles into which those batteries are incorporated, the affordability and the cost for end-users and the industry's competitiveness.		N/A
3.	By 31 December 2030, the Commission shall assess the feasibility of measures to phase out nonrechargeable portable batteries of general use with a view to minimising their environmental impact based on the life cycle assessment methodology and viable alternatives for end-users. To that end, the Commission shall submit a report to the European Parliament and to the Council and consider taking the appropriate measures, including the adoption of legislative proposals for either the phase out or the setting of ecodesign requirements.		N/A
Annex III Part A	Parameters for non-rechargeable batteries	Shall be compliant from 2028-08-18	N/A
	Minimum average duration (tAvg) :		N/A
	Delayed discharge performance (%) :		N/A
	Resistance to leakage – no escape of electrolyte, gas and other material:		N/A
Annex III Part B	Parameters for rechargeable batteries		N/A
	Rated capacity (%)		N/A
	Charge (capacity) retention (%) :		N/A
	Charge (capacity) recovery (%) :		N/A
	Endurance in cycles (cycles) :		N/A
	Resistance to leakage – no escape of electrolyte, gas and other material		N/A
Article 10	Performance and durability requirements for rechargeable industrial batteries, LMT batteries and electric vehicle batteries	Not such battery	N/A
Article 11	Removability and replaceability of portable batteries and LMT batteries	Not required by the client for this report, not mandatory until the specified date.	N/A
1.	Any natural or legal person that places on the market products incorporating portable batteries shall ensure that those batteries are readily removable and replaceable by the end-user at any time during the lifetime of the product. That obligation shall only apply to entire batteries and not to individual cells or other parts included in such batteries.		N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	A portable battery shall be considered readily removable by the end-user where it can be removed from a product with the use of commercially available tools, without requiring the use of specialised tools, unless provided free of charge with the product, proprietary tools, thermal energy, or solvents to disassemble the product.		N/A
	Any natural or legal person that places on the market products incorporating portable batteries shall ensure that those products are accompanied with instructions and safety information on the use, removal and replacement of the batteries. Those instructions and that safety information shall be made available permanently online, on a publicly available website, in an easily understandable way for end-users.		N/A
	This paragraph shall be without prejudice to any specific provisions ensuring a higher level of protection of the environment and human health relating to the removability and replaceability of portable batteries by end-users laid down in any Union law on electrical and electronic equipment as defined in Article 3(1), point (a), of Directive 2012/19/EU.		N/A
2.	<p>By way of derogation from paragraph 1, the following products incorporating portable batteries may be designed in such a way as to make the battery removable and replaceable only by independent professionals</p> <p>(a) appliances specifically designed to operate primarily in an environment that is regularly subject to splashing water, water streams or water immersion, and that are intended to be washable or rinseable;</p> <p>(b) professional medical imaging and radiotherapy devices, as defined in Article 2, point (1), of Regulation (EU) 2017/745, and in vitro diagnostic medical devices, as defined in Article 2, point (2), of Regulation (EU) 2017/746.</p> <p>The derogation set out in point (a) of this paragraph shall only be applicable where such derogation is required to ensure the safety of the user and the appliance.</p>		N/A
3.	The obligations laid down in paragraph 1 shall not apply where continuity of power supply is necessary and a permanent connection between the product and the respective portable battery is required to ensure the safety of the user and the appliance or, for products that collect and supply data as their main function, for data integrity reasons.		N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
4.	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend paragraph 2 of this Article by adding further products to be exempted from the removability and replaceability requirements laid down in paragraph 1 of this Article.		N/A
5.	Any natural or legal person that places on the market products incorporating LMT batteries shall ensure that those batteries, as well as individual battery cells included in the battery pack, are readily removable and replaceable by an independent professional at any time during the lifetime of the product.		N/A
6.	For the purposes of paragraphs 1 and 5, a portable battery or LMT battery shall be considered readily replaceable where, after its removal from an appliance or light means of transport, it can be substituted by another compatible battery without affecting the functioning, the performance or the safety of that appliance or light means of transport.		N/A
7.	Any natural or legal person that places on the market products incorporating portable batteries or LMT batteries shall ensure that those batteries are available as spare parts of the equipment that they power for a minimum of five years after placing the last unit of the equipment model on the market, with a reasonable and non-discriminatory price for independent professionals and end-users.		N/A
8.	Software shall not be used to impede the replacement of a portable battery or LMT battery, or of their key components, with another compatible battery or key components.		N/A
9.	The Commission shall publish guidelines to facilitate the harmonised application of this Article.		N/A
Article 12	Safety of stationary battery energy storage systems		N/A
CHAPTER III	Labelling, marking and information requirements		P
Article 13	Labelling and marking of batteries		P
1.	From 18 August 2026 or 18 months after the date of entry into force of the implementing act referred to in paragraph 10, whichever is the latest, batteries shall bear a label containing the general information on batteries set out in Part A of Annex VI.	Shall be compliant from 2026-08-18	N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
2.	From 18 August 2026 or 18 months after the date of entry into force of the implementing act referred to in paragraph 10, whichever is the latest, rechargeable portable batteries, LMT batteries and SLI batteries shall bear a label containing information on their capacity.	Not such battery	N/A
3.	From 18 August 2026 or 18 months after the date of entry into force of the implementing act referred to in paragraph 10, whichever is the latest, nonrechargeable portable batteries shall bear a label containing information on their minimum average duration when used in specific applications and a label indicating 'non-rechargeable'.	Not such battery	N/A
4.	From 18 August 2025, all batteries shall be marked with the symbol for separate collection of batteries ('separate collection symbol') as shown in Part B of Annex VI.	Separate collection symbol marked.	P
	The separate collection symbol shall cover at least 3 % of the area of the largest side of the battery up to a maximum size of 5 × 5 cm.		N/A
	In the case of cylindrical battery cells, the separate collection symbol shall cover at least 1,5 % of the surface area of the battery and shall have a maximum size of 5 × 5 cm.		P
	Where the size of the battery is such that the separate collection symbol would be smaller than 0,47 × 0,47 cm, the battery does not need to be marked with that symbol. Instead, a separate collection symbol measuring at least 1 × 1 cm shall be printed on the packaging.		N/A
5.	All batteries containing more than 0,002 % cadmium or more than 0,004 % lead, shall be marked with the chemical symbol for the metal concerned: Cd or Pb.	Not exceed the limit.	N/A
	The relevant chemical symbol indicating the heavy metal content shall be printed beneath the separate collection symbol and shall cover an area of at least one-quarter the size of that symbol.		N/A
6.	From 18 February 2027, all batteries shall be marked with a QR code as described in Part C of Annex VI. The QR code shall provide access to the following:	Shall be compliant from 2027-08-18	N/A
	(a) for LMT batteries, industrial batteries with a capacity greater than 2kWh and electric vehicles batteries, the battery passport in accordance with Article 77;		N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	(b) for other batteries, the applicable information referred to in paragraphs 1 to 5 of this Article, the declaration of conformity referred to in Article 18, the report referred to in Article 52(3) and the information regarding the prevention and management of waste batteries laid down in Article 74(1), points (a) to (f);		N/A
	(c) for SLI batteries, the amount of cobalt, lead, lithium or nickel recovered from waste and present in active materials in the battery, calculated in accordance with Article 8.		N/A
	This information shall be complete, up-to-date and accurate.		N/A
7.	The labels and the QR code referred to in paragraphs 1 to 6 shall be printed or engraved visibly, legibly and indelibly on the battery. Where this is not possible or not warranted on account of the nature and size of the battery, the labels and the QR code shall be affixed to the packaging and to the documents accompanying the battery.		P
8.	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend this Regulation to provide for alternative types of smart labels for use instead of or in addition to the QR code, in view of technical and scientific progress.		N/A
9.	Batteries that have been subject to preparation for reuse, preparation for repurposing, repurposing or remanufacturing shall bear new labels or shall be marked with markings in accordance with this Article, and containing information on their change of status in accordance with point 4 of Annex XIII, which shall be accessible through the QR code.		N/A
10.	The Commission shall, by 18 August 2025, adopt implementing acts to establish harmonised specifications for the labelling requirements referred to in paragraphs 1, 2 and 3 of this Article. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 90(3).		N/A
ANNEX VI	LABELLING, MARKING AND INFORMATION REQUIREMENTS		P
Part A:	General information on batteries		P
	Information on the label of a battery shall comprise the following information regarding the battery:	Partially evaluated	P
	1. information identifying the manufacturer in accordance with Article 38(7);		P
	2. the battery category and information identifying the battery in accordance with Article 38(6);	Shall be compliant from 2026-08-18	N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	3. the place of manufacture (geographical location of a battery manufacturing plant);		P
	4. the date of manufacture (month and year);		P
	5. the weight;	Shall be compliant from 2026-08-18	N/A
	6. the capacity;	Capacity declared on the label, not evaluated, shall be compliant from 2026-08-18	N/A
	7. the chemistry;	Shall be compliant from 2026-08-18	N/A
	8. the hazardous substances present in the battery, other than mercury, cadmium or lead;	Shall be compliant from 2026-08-18	N/A
	9. usable extinguishing agent;	Shall be compliant from 2026-08-18	N/A
	10. critical raw materials present in the battery in a concentration of more than 0,1 % weight by weight.	Shall be compliant from 2026-08-18	N/A
Part B:	Symbol for separate collection of batteries 	Marked on the battery surface	P
Part C:	QR code	Shall be compliant from 2027-08-18	N/A
	The QR code shall be in high contrast to the background colour and of a size that is easily readable by a commonly available QR reader, such as those integrated in hand-held communication devices.		N/A
Article 14	Information on the state of health and expected lifetime of batteries		N/A
CHAPTER IV	Conformity of batteries		P
Article 18	EU declaration of conformity		P
1.	The EU declaration of conformity shall state that the compliance with the requirements laid down in Articles 6 to 10 and Articles 12, 13 and 14 has been demonstrated.	Applicable article stated	P

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
2.	The EU declaration of conformity shall have the model structure set out in Annex IX, shall contain the elements specified in the relevant modules set out in Annex VIII, and shall be kept up to date. It shall be translated into the language or languages required by the Member State in which the battery is placed or made available on the market or put into service. It shall be drawn up in electronic format and, where requested, it shall be provided in paper format.	EU DECLARATION OF CONFORMITY content provided	P
3.	Where a battery is subject to more than one Union act requiring an EU declaration of conformity, a single EU declaration of conformity shall be drawn up in respect of all such Union acts. That declaration shall state the Union acts concerned and their publication references.		N/A
4.	By drawing up the EU declaration of conformity, the manufacturer shall assume responsibility for the compliance of the battery with the requirements laid down in this Regulation.		P
5.	Without prejudice to paragraph 3, a single EU declaration of conformity may be made up of one or more individual EU declarations of conformity already drawn up in compliance with a different Union act or acts, in order to reduce the administrative burden on economic operators.		N/A
ANNEX IX	EU DECLARATION OF CONFORMITY No* ... * (identification number of the declaration)	EU declaration of conformity provided and checked	P
Article 19	General principles of the CE marking		P
	The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.		P
Article 20	Rules and conditions for affixing the CE marking		P
1.	The CE marking shall be affixed visibly, legibly and indelibly to the battery. Where that is not possible or not warranted due to the nature of the battery, it shall be affixed to the packaging and to the documents accompanying the battery.		P
2.	The CE marking shall be affixed before the battery is placed on the market or put into service.		P
3.	The CE marking shall be followed by the identification number of the notified body where required under Annex VIII. That identification number shall be affixed by the notified body itself or, under its instructions, by the manufacturer or by its authorised representative.	Not such battery	N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
4.	The CE marking and the identification number referred to in paragraph 3 may be followed, if applicable, by any pictogram or other mark indicating a special risk, use or any danger linked to the use, storage, treatment or transport of the battery.		N/A
5.	Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.		N/A
CHAPTER V	Notification of conformity assessment bodies		N/A
CHAPTER VI	Obligations of economic operators other than the obligations in Chapters VII and VIII	The obligations shall be considered by economic operator when delivering the battery	P
CHAPTER VII	Obligations of economic operators as regards battery due diligence policies		N/A
CHAPTER VIII	Management of waste batteries	Shall apply from 18 August 2025	P
CHAPTER IX	Digital battery passport	Not applicable to portable batteries	N/A
ANNEX X	LIST OF RAW MATERIALS AND RISK CATEGORIES		N/A
ANNEX XI	CALCULATION OF COLLECTION RATES FOR WASTE PORTABLE BATTERIES AND WASTE LMT BATTERIES		N/A
ANNEX XII	STORAGE AND TREATMENT, INCLUDING RECYCLING, REQUIREMENTS		N/A
ANNEX XIV	MINIMUM REQUIREMENTS FOR SHIPMENTS OF USED BATTERIES		N/A
ANNEX XV	CORRELATION TABLE		N/A

- End of report -

Report No.: 180341238a 001 Page 1 of 14

Client: JIAXING GEDD TECHNOLOGY CO., LTD

Contact Information: Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, Zhejiang, P.R. China

**Identification/
Model No(s):** Alkaline Zn/MnO₂ Battery
LR6

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2025-07-29, 2025-08-18

Testing Period: 2025-07-29 to 2025-08-21

Place of testing: Chemical laboratory Ningbo

Test Specification:

Please refer to "Test Result Summary List" on page 2 for details

Other information:

Reference Style No(s): LR03

For and on behalf of
TÜV Rheinland/CCIC (Ningbo) Co., Ltd.



2025-08-25

Dream Wang / Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

Test Report No.: 180341238a 001

Page 2 of 14

Test Result Summary :**Test Specification:****Test result:**

Restrictions of hazardous substances for Battery - according to Article 6(1) of Regulation (EU) 2023/1542	
1 Heavy Metal Test for Battery - according to Annex I of Regulation (EU) 2023/1542	PASS
2 Total Cadmium Content in accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011 and (EU) No. 835/2012 and (EU) No.217/2016.	PASS
3 Organotin compounds content according to REACH Regulation (EC) No. 1907/2006 Annex XVII Item 20 and amendment Commission Regulation (EU) No. 276/2010 (formerly known as 2009/425/EC)	PASS
4 Dimethyl fumarate Content - According to REACH regulation (EC) No. 1907/2006 Annex XVII Entry 61 and its amendments	PASS
5 Polycyclic aromatic hydrocarbons (PAHs) - REACH regulation (EC) No. 1907/2006 with Amendment No. 552/2009· Annex XVII Item No. 50 and (EU) No.1272/2013	PASS
6 Selected Perfluorinated carboxylic acids (C9-C14 PFCAs) and related substances	PASS
7 REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entry 51 : Phthalates	PASS
8 Octabromodiphenylether (OctaBDE) content accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII entry 45	PASS

Test Report No.: 180341238a 001

Page 3 of 14

Material List:

Item: Alkaline Zn/MnO₂ Battery
LR6

Material No.	Material	Color	Location
A001	Battery	yellow+black	refer to photo
A002	Plastic	white	refer to photo
A003	Paper	white	refer to photo
A004	Carbon Black	black	refer to photo
A005	Plastic + adhesive	yellow+black	refer to photo

Test Report No.: 180341238a 001

Page 4 of 14

1.Heavy Metal Test for Battery - according to Annex I of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

Test result

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	A001	Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL

Abbreviation: Pb = Lead
 Cd = Cadmium
 Hg = Mercury
 < = less than
 n.a.= not applicable
 RL = Reporting Limit

Remark:

- # The cadmium restriction shall not apply to portable batteries and accumulators intended for use in i) emergency and alarm systems, including emergency lighting and ii) medical equipment according to article 4(3) of Directive 2006/66/EC and its amendments.

Test Report No.: 180341238a 001

Page 5 of 14

2.Total Cadmium Content

Test Method: Acid digestion, analyzed by AAS/ ICP-OES

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	A002 + A003 + A005	Cadmium	mg/kg	10	100	< RL
T002	A004	Cadmium	mg/kg	10	100	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram

Remark:

* Regulations on Cadmium

EU	Legislation	Maximum Permissible Limit				
		Plastic materials	Paint (wet state)	Paint on the painted articles	Paint (high zinc content)	Metal parts of jewellery and imitation jewellery articles and hair accessories
EC	REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011, (EU) No. 835/2012 and (EU) No. 217/2016.	100mg/kg	100mg/kg	1000mg/kg	1000mg/kg	100mg/kg

Country	Legislation	Maximum Permissible Limit
		Paint, plastic, plating/ coating of surface treatment
Switzerland	Switzerland Chemikalien-Risikoreduktions-Verordnung-ChemRRV, 814.81, 18 May 2005	100mg/kg

Test Report No.: 180341238a 001

Page 6 of 14

3. Organotin compounds content

 Test Method: Organic solvent extraction, GCMS
 Ref. to ISO/TS 16179:2012

Test No.				T001
Material No.				A002 + A003 + A005
Test Parameter	Unit	RL	Regulatory Requirement	Result
TBT(Tributyltin) by weight of tin	%	0.01	--	< RL
TPT(Triphenyltin) by weight of tin	%	0.01	--	< RL
TOT(Trioctyltin) by weight of tin	%	0.01	--	< RL
TCyT(Tricyclohexyltin) by weight of tin	%	0.01	--	< RL
TPrT(Tripopyltin) by weight of tin	%	0.01	--	< RL
Sum of Tin of tri-substituted organotins	%	NA	0.1	< RL
DBT(Dibutyltin) by weight of tin	%	0.01	0.1	< RL
DOT(Dioctyltin) by weight of tin	%	0.01	0.1	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 % = percentage
 NA = Not Applicable

Test Report No.: 180341238a 001

Page 7 of 14

Remark:

- * Single components with an amount of <0.01% were not considered in the calculation of the sum. In the case of all five tri-substituted organotin compounds were not detected, the result is stated < RL
- ** The assessment for tri-substituted organotin compounds is based on the sum of TBT, TPT, TOT, TCyT and TPrT by weight of tin only.
- *** According to REACH Regulation (EC) No. 1907/2006 Annex XVII Entry 20 and amendment Commission Regulation (EU) No. 276/2010 (formerly known as 2009/425/EC), organotin compounds shall not be used or be placed on the market.

Type of organotin compounds	Maximum Permissible Limit	Implementation date
Tri-substituted organotin compounds, e.g. tributyltin (TBT) compounds and triphenyltin (TPT) compounds	0.1 % by weight of tin	1 July 2010
Dibutyltin (DBT) compounds in mixtures and articles for supply to the general public	0.1 % by weight of tin	1 January 2012 The below products will not be applicable until 1 January 2015: - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades
Dioctyltin (DOT) compounds - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 % by weight of tin	1 January 2012

Test Report No.: 180341238a 001

Page 8 of 14

4. Dimethyl fumarate (CAS No. 624-49-7)

Test Method: Organic solvent extraction, GCMS analysis

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	A002 + A003 + A005	Dimethyl fumarate	mg/kg	0.025	0.1	< RL

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram

Remark:

- * According to REACH Regulation (EC) No. 1907/2006 Annex XVII Item 61 and amendment Commission Regulation (EU) No. 412/2012 (formerly known as 2012/48/EU), dimethylfumarate (DMF) shall not be used in articles or any parts thereof in concentrations greater than 0.1 mg/kg. Articles or any parts thereof containing DMF in concentrations greater than 0.1 mg/kg shall not be placed on the market.

Test Report No.: 180341238a 001

Page 9 of 14

5. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: Organic solvent extraction, GCMS

				Test No.	T001
				Material No.	A005
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.2	1	< RL
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.2	1	< RL
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.2	1	< RL
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.2	1	< RL
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.2	1	< RL
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.2	1	< RL
Chrysene (CHR)	218-01-9	mg/kg	0.2	1	< RL
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.2	1	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

Remark:

* Requirement according to REACH regulation (EC) No. 1907/2006 with Amendment No. 552/2009 Annex XVII Item No. 50 and (EU) No.1272/2013, are summarized as below:

Scope	Parameter	Unit	Maximum permissible limit
Articles with direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, made of plastic and rubber shall follow below limit:			
Such articles include amongst others: ---sport equipment such as bicycles, golf clubs, racquets ---household utensils, trolleys, walking frames --- tools for domestic use --- clothing, footwear, gloves and sportswear ---watch-straps, wrist-bands, masks, head-bands	Each of 8 listed PAHs	mg/kg	1
Toys, including activity toys, and childcare articles	Each of 8 listed PAHs	mg/kg	0.5

Test Report No.: 180341238a 001

Page 10 of 14

6. Selected Perfluorinated carboxylic acids (C9-C14 PFCAs) and related substances

Test Method: In house method, determination by CI-GCMS, GC-MSMS and LC-MSMS

					Test No.	T001
					Material No.	A002 + A003 + A005
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	
Perfluorononan-1-oic acid (PFNA)	375-95-1	mg/kg	0.01	-	< RL	
Perfluorodecanoic acid (PFDA)	335-76-2	mg/kg	0.01	-	< RL	
Perfluoroundecanoic acid (PFUnA)	2058-94-8	mg/kg	0.01	-	< RL	
Perfluorododecanoic acid (PFDoA)	307-55-1	mg/kg	0.01	-	< RL	
Perfluorotridecanoic acid (PFTrA)	72629-94-8	mg/kg	0.01	-	< RL	
Perfluorotetradecanoic acid (PFTeA)	376-06-7	mg/kg	0.01	-	< RL	
Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	-	< RL	
Sum of C9-C14 PFCAs	--	mg/kg	--	0.025	< RL	
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.25	-	< RL	
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.25	-	< RL	
Perfluorodecanesulfonate (PFDS)	335-77-3	mg/kg	0.01	-	< RL	
2H,2H,3H,3H-Perfluoroundecanoic acid (H4PFUnA)	34598-33-9	mg/kg	0.01	-	< RL	
1H,1H,2H,2H-Perfluorododecanesulfonic acid (10:2 FTS)	120226-60-0	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2-FTSA)	39108-34-4	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	-	< RL	
1H, 1H, 2H, 2H-Perfluorodecyl dichloromethylsilane (C8-PFSi)	3102-79-2	mg/kg	0.1	-	< RL	
8:2 Fluorotelomer olefin (8:2 FTO)	21652-58-4	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2-FTA)	27905-45-9	mg/kg	0.1	-	< RL	
Perfluorooctylethyl Methacrylate (8:2-FTMAC)	1996-88-9	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Heptadecafluoro-1-iododecane (8:2-FTI)	2043-53-0	mg/kg	0.1	-	< RL	
2-(Perfluorodecyl)ethyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.1	-	< RL	
Sum of C9-C14 PFCA related substances	--	mg/kg	--	0.26	< RL	
Conclusion	--	--	--	--	Pass	

Test Report No.: 180341238a 001

Page 11 of 14

Abbreviation: < = Less than
RL = Reporting Limit
mg/kg = milligram per kilogram

Test Report No.: 180341238a 001

Page 12 of 14

7.REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entry 51 : Phthalates

Test Method: Ref. to IEC 62321-8:2017

					Test No.	T001
					Material No.	A002 + A003 + A005
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	0.1	< RL	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	< RL	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	0.1	< RL	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	< RL	
Sum of above (DEHP +DBP+BBP+DIBP)	--	%	0.005	0.1	< RL	
Conclusion						Pass

Abbreviation: < = less than
 RL = Reporting Limit
 % = percentage

Remark:

- Requirement of REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51:

Parameter	Unit	Maximum Permissible Limit
Plasticised materials in toys and childcare articles, or other articles# place on the market;		
Diethylhexyl phthalate (DEHP) Dibutyl phthalate (DBP) Benzylbutyl phthalate (BBP) Diisobutyl phthalate (DIBP)	%	0.1 (individually or sum of the four phthalates) Effective after 7 July 2020.

Denote:

Examples of articles that are excluded from the restriction

- Articles exclusively for industrial / agricultural use / use in open air, provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin (i.e. Continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.)
- Aircraft and motor vehicles (Directive 2007/46/EC) placed on the market before 7 January 2024, or articles for use exclusively in the maintenance or repair of them
- Measuring devices for laboratory use;
- Food contact material and articles within the scope of Regulation (EC) No 1935/2004 or Commission Regulation (EU) No 10/2011
- Medical devices (Directive 90/385/EEC, 93/42/EEC or 98/79/EC)
- Electrical and electronic equipment within the scope of Directive 2011/65/EU
- Immediate packaging of medicinal products (Regulation (EC) No 726/2004, Directive 2001/82/EC or Directive 2001/83/EC)
- Toys and childcare articles covered by paragraphs 1 or 2 of entries 51

- Single component with an amount below reporting limit was not considered by the calculation of the sum. In the case of all phthalates were not detected, the result is stated <RL.

Test Report No.: 180341238a 001

Page 13 of 14

8. Octabromodiphenylether (OctaBDE) content accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII entry 45

Test Method: Organic solvent extraction, analyzed by GCMS & LCMS

				Test No.	T001	T002
				Material No.:	A002	A003
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result
Octabromodiphenylether (OctaBDE)	32536-52-0	mg/kg	50	1000	< RL	< RL

				Test No.	T003
				Material No.:	A005
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result
Octabromodiphenylether (OctaBDE)	32536-52-0	mg/kg	50	1000	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram

Remark:

- * According to REACH regulation (EC) No. 1907/2006 entry 45 of octabromo derivative (Octabromodiphenyl ether), shall not be used as substance, or as a constituent of other substances/in mixtures, or as constituents of the flame-retarded parts or articles, in concentrations greater than 0.1 % by weight.

Sample Photos



LR6



LR03

- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. Scope

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBCB") is made between the client and the provider of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China here refers to the regions within the territories of China. The client hereby indicates:

(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of the use of the services of TÜV Rheinland, or

(ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.

1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.

1.3 Any standard terms and conditions of the client if any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

1.4 In the context of an ongoing business relationship with the client, this GTBCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. Quotations

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. Coming into effect and duration of contracts

3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the receipt requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.

3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for the extension as stated in writing by either party with a three-month notice prior to the end of the contractual term.

4. Scope of services

4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the services to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking of control parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such) are not covered. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.

4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.

4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of the tested or examined parts nor of the installation as a whole or its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of design, installation or maintenance of the installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.

4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.

4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports and/or results, reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in part - to third parties in accordance with clause 11.4.

4.8 The client understands and agrees that in order to perform the contract with TÜV Rheinland, the client may need to sign one or more contracts/agreements with a/more third party(ies) and establish legal relationships with those third party(ies) according to such contracts/agreements. TÜV Rheinland is not responsible for the legal relationship between the client and the third parties. According to this contract and the direct services actually to be provided by our company in the service process. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and certification services) to be provided by third parties, TÜV Rheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that TÜV Rheinland can also subcontract to a third party the contract. The relevant third parties shall be responsible for their own responsibility and/or risk for any services to be provided by any third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client to testing and/or certification bodies, agency services provided by any other third party(ies), etc.). Besides, the client shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract. If the client is required to provide any annual renewal/surveillance of the installations under the contract, TÜV Rheinland may add additional fees in accordance with the relevant laws and regulations or the testing and certification rules, such fees are not within the scope of the contract price, the client shall timely perform the obligation to pay the fees and/or to provide the corresponding fees. If the client fails to perform such obligations of the annual renewal/surveillance or fees payment, it may lead to adverse consequences such as failure/suspension/cancellation/invalidity of testing and/or certification results, which shall be borne by the client.

4.9 For the service contract agreed in the contract, if the client requires TÜV Rheinland to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client, TÜV Rheinland shall not take any responsibility for any problems during such delivery and the transportation process (including but not limited to any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. Performance periods/dates

5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.

5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.

5.3 Articles 5.1 and 5.2 also apply, even without express agreement by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.

5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.

5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, in its own interest, the client may agree in writing with TÜV Rheinland, in which the client agrees to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

6. The client's obligation to cooperate

6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

a) it has required statutory qualifications;

b) the product, service or management system to be certified complies with applicable laws and regulations; and

c) it doesn't have any legal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts (People's Republic of China).

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing reports/certificates if any.

6.3 The client shall bear any additional costs incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. Prices

7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.

7.2 Unless otherwise agreed in writing, the price shall be in the local currency of the work.

7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. Payment terms

8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.

8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the contract is not terminated under 9% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the rise in fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

8.9 Only legally established and undisputed claims may be offset against payments by TÜV Rheinland.

8.10 TÜV Rheinland shall have the right at all times to set off any amount due or payable by the client, including but not limited to set-off against any past due by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

9. Acceptance of work

9.1 Any part of the work required or which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.

9.2 If acceptance is required contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.

9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.

9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take place.

9.5 During the Follow-Up stage, the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit, TÜV Rheinland is entitled to demand a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to claim the same damages in the event of a breach of contract. If the client is not compensated for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. Confidentiality

10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing technology applied, and other confidential information transmitted by e-mail. If confidential or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form. Confidential information is expressly not the data and know-how or other confidential information of the disclosing party, but information that is not and proprietary to the client) with the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services. 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The client shall apply to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party does not do so, the confidentiality period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g. Wechat, etc.) authorized by TÜV Rheinland to handle confidential information. The disclosing party shall ensure that the client shall send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakage to be caused by the adoption of the disclosing party's email or other communication methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of the contract shall be confidential. It may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party.

10.4 The client may not copy, distribute, publish or otherwise disclose by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, public bodies, accreditation bodies or third parties and/or to the media. If the client is required to do so, the disclosing party shall be notified in advance and the disclosing party shall be notified in advance and the disclosing party shall be notified in advance and the disclosing party shall be notified in advance.

10.5 The receiving party shall not disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party shall ensure that these employees to observe the same level of secrecy as set forth in this confidentiality clause.

10.6 Information for which the receiving party can furnish proof that:

a) it was generally known at the time of disclosure or has become general knowledge without violation of any confidentiality obligations by the disclosing party; or

b) it was disclosed to the receiving party by a third party entitled to disclose this information; or

c) the receiving party already possessed this information prior to disclosure by the disclosing party; or

d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute confidential information as defined in this confidentiality clause.

10.7 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and (ii) on request by the disclosing party, to destroy or delete all confidential information, including all copies, and to confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not include reports and certificates issued for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to comply with the requirements of the contract and general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.

10.8 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights and rights of use, publications

11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use").

11.2 The client grants to TÜV Rheinland a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.

11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTBCB is subject to full payment of the remuneration for the work results by the client.

11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.

11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any quotation of the introduction of TÜV Rheinland shall be limited to (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annual recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, the client shall be liable for any damages or losses incurred in accordance to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

11.6 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the contractually agreed, in cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

11.7 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services or the contract. If such personnel made available is regarded as vicarious agent of TÜV Rheinland, if TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from in connection with such personnel's acts.

11.8 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract for damages caused by the client's personnel.

11.9 The limitation periods for claims for damages shall be based on statutory provisions.

11.10 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

12. Liability of TÜV Rheinland

12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annual recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, the client shall be liable for any damages or losses incurred in accordance to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the contractually agreed, in cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

12.3 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services or the contract. If such personnel made available is regarded as vicarious agent of TÜV Rheinland, if TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from in connection with such personnel's acts.

12.4 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract for damages caused by the client's personnel.

12.5 The limitation periods for claims for damages shall be based on statutory provisions.

12.6 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Export control

13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.

13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or

sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. Data protection notice

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of the performance of this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, TÜV Rheinland may also process personal data of the client. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has been disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the personal responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51106 Cologne, Germany.

15. Retention of test material and documentation

15.1 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.

15.2 Charges apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.

15.3 The client agrees that the test samples and/or documents are given to the client on the basis of the premises, the references or documents must be made available to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making the samples and/or documents available, TÜV Rheinland reserves the right to material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

15.4 The client agrees that the documents shall be destroyed after the expiry of the test mark certificates or shall meet the applicable legal requirements for EU/EEA certificates of conformity and GS mark certificates.

15.5 The completed test reports and dispatch of the test samples for storage on the client's premises are borne by the client. TÜV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

16. Termination of the contract

16.1 Notwithstanding clause 3.3 of the GTBCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services, in part, if one of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to a loss or suspension of its accreditation or notification.

16.2 For good cause, TÜV Rheinland may consider giving a written notice to the client to terminate the contract without being bound by any liabilities and/or claims for relevant service fees, claims for services provided by TÜV Rheinland due to the termination date of the contract. The aforesaid good causes includes but not limited to the following:

a) the client does not fulfil its obligations under the contract, in particular if the client repeatedly fails to comply with the conditions in the conditions within the agreed time frame;

b) the client misuses the certificate or certification mark or uses it in violation of the contract;

c) the event of several consecutive delays in the payment of invoices and/or relevant service fees;

d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship;

e) in the event of any serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;

f) if TÜV Rheinland, in its sole discretion, deems it necessary to temporarily or finally not able or intend to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, loss of accreditation or notification, or other.

16.3 If the country/region in which the registered or notified service project in the contract does not belong to the insurance coverage applicable to TÜV Rheinland, and TÜV Rheinland believes that there is a risk or some risks beyond its control to continue to perform the contract, the client shall be obliged to provide written notice to TÜV Rheinland for good cause. TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term. The client shall be obliged to provide written notice to TÜV Rheinland if there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.

16.4 TÜV Rheinland is also entitled to give written notice to the client if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. Force Majeure

17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably have avoided or overcome the event; and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the affected Party.

17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfill conditions (a) and (b) under paragraph 1.1 of this Clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion and revolution; (iii) strikes or other industrial action; (iv) acts of terrorism, sabotage or piracy; (v) currency and trade restriction, embargo, sanction; (vi) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vii) explosion, fire, destruction of equipment, prolonged breakdown of transport, telecommunication, information system or energy; (viii) general labor disturbance such as boycott, strike and lock-out; (ix) slow-occupation of premises and premises.

17.3 The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract from any liability in damages or from any other contractual remedy for breach of contract, for the time at which the impediment causes inability to perform, provided that the notice thereof is given without delay. If notice thereof is not given without delay, the relief is effective from the time at which notice thereof reaches the other Party. Where the effect of the impediment or event involved is temporary, the above provisions shall apply only as long as the impediment involved impedes performance of the affected Party. Where the duration of the impediment involved has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, the affected Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. Hardship

18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.

18.2 Notwithstanding paragraph 1.1 of this Clause, where a Party proves that:

(a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that

(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. Partial invalidity, written form, place of jurisdiction and dispute resolution

19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.

19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.

19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be the law of the country in which the contract was concluded.

19.4 If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the law of the People's Republic of China.

19.5 If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

19.6 If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.

19.7 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.



19.8 Unless otherwise stipulated in the contract, no mediation or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:

(a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party;

(b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association (CAA) to be settled by arbitration in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei;

(c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration in accordance with its then current Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

19.9 The decision of the arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.

Prüfbericht-Nr.: Test report no.:	CN25LDUR 001	Auftrags-Nr.: Order no.:	180341238	Seite 1 von 20 Page 1 of 20
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-07-22	
Auftraggeber: Client:	Jiaxing Gedd Technology Co., Ltd. / Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, 314113 Zhejiang, P.R. China			
Prüfgegenstand: Test item:	Alkaline Battery			
Bezeichnung / Typ-Nr.: Identification / Type no.:	LR6, LR03			
Auftrags-Inhalt: Order content:	Test report			
Prüfgrundlage: Test specification:	REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023			
Wareneingangsdatum: Date of sample receipt:	2025-07-28	 		
Prüfmuster-Nr.: Test sample no.:	A004054092-001			
Prüfzeitraum: Testing period:	2025-07-29 - 2025-08-21			
Ort der Prüfung: Place of testing:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<input checked="" type="checkbox"/> <u>Natty Shen</u>	genehmigt von: authorized by:	<input checked="" type="checkbox"/> <u>Qiang Ye</u>	
Datum: Date:	2025-09-04 <small>Signed by: Natty Shen</small>	Ausstellungsdatum: Issue date:	2025-09-04 <small>Signed by: Qiang Ye</small>	
Stellung / Position:	Natty Shen / PE	Stellung / Position:	Qiang Ye / Authorizor	
Sonstiges / Other:	Article 6, 13 and 18 of (EU) 2023/1542 are evulated for portable battery in this test report, details see next pages.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

Prüfbericht-Nr.: CN25LDUR 001
Test report no.:

Seite 2 von 20
Page 2 of 20

Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

Prüfbericht-Nr.: CN25LDUR 001
 Test report no.:

Seite 3 von 20
 Page 3 of 20

Produktbeschreibung
 Product description

1	Produktdetails <i>Product details</i>	Alkaline Battery
2	Maße / Gewicht <i>Dimensions / Weight</i>	LR6: Φ 14.1mm x 50.3mm / appr. 23.3g LR03: Φ 10.3mm x 44.1mm / appr. 11.4g
3	Bedienelemente <i>Operating elements</i>	/
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	/
5	Verwendete Materialien <i>Used materials</i>	/
6	Sonstiges <i>Other</i>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
7	Prüfmusterbereitstellung: <i>Test sample obtaining</i>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:

Prüfbericht-Nr.: CN25LDUR 001
Test report no.:

Seite 4 von 20
Page 4 of 20

Produktbeschreibung
Product description

Battery LR6



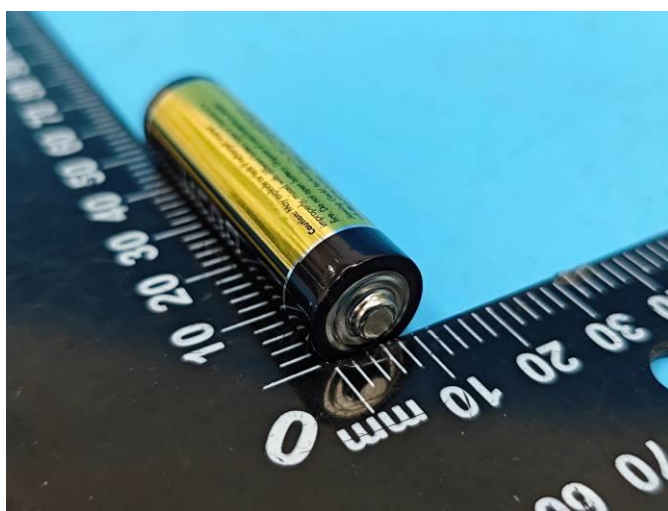
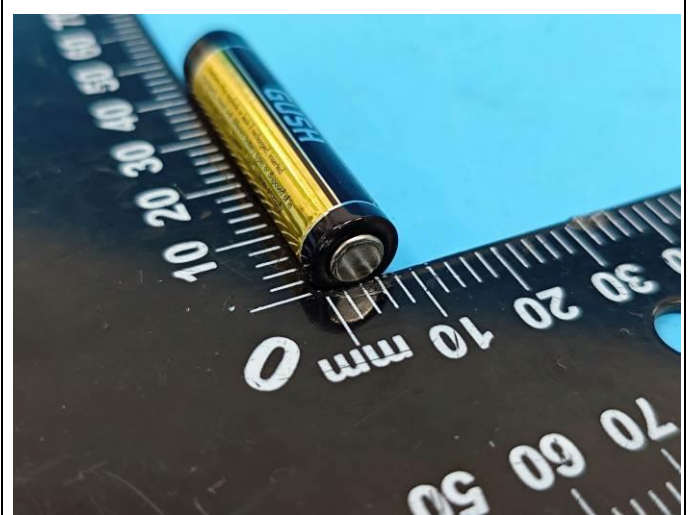
Battery LR03



Prüfbericht-Nr.: CN25LDUR 001
Test report no.:

Seite 5 von 20
Page 5 of 20

Produktbeschreibung
Product description



Caution: May explode or leak if recharged, inserted improperly, mixed with different battery types or disposed of in fire. Do not open battery. Dispose of used batteries promptly.

Jiaxing Gedd Technology Co.,Ltd | www.gedd-tech.com
info@gedd-tech.com | Building 2, No.155, Kapa Road,
Dayun, Jiashan, Zhejiang, **MADE IN CHINA**

+

GUSH

LR6 1.5VAA

Industrial

ALKALINE

0% Mercury & Cadmium



GUSH

Caution: May explode or leak if recharged, inserted improperly, mixed with different battery types or disposed of in fire. Do not open battery. Dispose of used batteries promptly.

Jiaxing Gedd Technology Co.,Ltd | www.gedd-tech.com
info@gedd-tech.com | Building 2, No.155, Kapa Road,
Dayun, Jiashan, Zhejiang, **MADE IN CHINA**

+

GUSH

LR03 1.5VAAA

Industrial

ALKALINE

0% Mercury & Cadmium



GUSH

Test Report issued under the responsibility of:



Test Report

Report Reference No.: CN25LDUR 001

Date of issue: See cover page

Total number of pages: See cover page

Applicant's name: Jiaxing Gedd Technology Co., Ltd.

Address: Building 2, No.155, Kapa Road, Dayun Town, Jiashan County,
Jiaxing City, 314113 Zhejiang, P.R. China

Test specification:

Standard: See cover page

Test procedure : Type test

Non-standard test method.....: N/A

Test Report Form(s) Originator....: TÜV Rheinland / CCIC (Ningbo) Co., Ltd.

Master TRF: Dated 2024-07

Test item description: Alkaline Battery

Trade Mark.....: N/A

Manufacturer: Same as applicant

General disclaimer :

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the Testing Laboratory, responsible for this Test Report.

Testing procedure and testing location:					
<input checked="" type="checkbox"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Testing Laboratory:</td> <td>TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China</td> </tr> <tr> <td>Testing location/ address.....:</td> <td>TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China</td> </tr> </table>	Testing Laboratory:	TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China	Testing location/ address.....:	TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China
Testing Laboratory:	TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China				
Testing location/ address.....:	TUV Rheinland / CCIC (Ningbo) Co., Ltd. Building C13, R&D Park, No.32 Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, P.R. China				
<input type="checkbox"/>	Testing procedure: TMP/CTF Stage 1:				
Testing location/ address.....:					
Tested by (name + signature)					
Approved by (name + signature)					
<input type="checkbox"/>	Testing procedure: WMT/CTF Stage 2:				
Testing location/ address.....:					
Tested by (name + signature)					
Witnessed by (name + signature).....					
Approved by (name + signature)					
<input type="checkbox"/>	Testing procedure: SMT/CTF Stage 3 or 4:				
Testing location/ address.....:					
Tested by (name + signature)					
Witnessed by (name + signature).....					
Approved by (name + signature)					
Supervised by (name + signature)					

Possible test case verdicts:

- test case does not apply to the test object.....: N/A (Not Applicable)
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing.....:
Date of receipt of test item: See coverage

Date (s) of performance of tests: See coverage

Test item particulars:

Battery category:

- Portable Batteries (including button cells),
- Portable batteries of general use (excluding button cells),
- SLI batteries,
- LMT batteries,
- EV batteries,
- Industrial batteries \leq 2kWh,
- Industrial batteries $>$ 2kWh,
- Industrial batteries \leq 2kWh - Stationary battery energy storage system,
- Industrial batteries $>$ 2kWh - Stationary battery energy storage system

Type: battery cell, battery module, battery packRechargeability: rechargeable, non-rechargeable

Copy of marking plate:

See “photo of description”.

Remark: The name and address of EU importer shall be added before the product is placed on the EU market.

The height of CE logo was measured more than 5 mm.

General product information:

The products are alkaline battery, intended for using as power source for portable lighting or toy application and are considered as portable battery of general use as defined in (EU) 2023/1542.

Summary of testing:

The product meets the requirements of:

Category: Portable batteries (including button cells)			
Evaluated	Article	Requirement	Stage from
<input checked="" type="checkbox"/>	Article 6(1)	Restriction of substances - REACH (EC)1907/2006 Annex XVII	2024-02-18
<input checked="" type="checkbox"/>	Article 6 (Annex I point 1)	Restriction of substances – Mercury	2024-02-18
<input checked="" type="checkbox"/>	Article 6 (Annex I point 2)	Restriction of substances – Cadmium	2024-02-18
<input checked="" type="checkbox"/>	Article 6 (Annex I point 3)	Restriction of substances – Lead	2024-08-18
<input type="checkbox"/>	Article 9	Performance and durability requirements for portable batteries of general use	2028-08-18
<input type="checkbox"/>	Article 11	Removability and replaceability of portable batteries and LMT batteries	2027-02-18
<input type="checkbox"/>	Article 13(1)	Labeling and marking – General information	2026-08-18
<input type="checkbox"/>	Article 13(2)	Labeling and marking – Capacity label	2026-08-18
<input type="checkbox"/>	Article 13(3)	Labeling and marking – Use duration information, non-rechargeable label	2026-08-18
<input checked="" type="checkbox"/>	Article 13(4)	Labeling and marking – Separate collection symbol	2025-08-18
<input checked="" type="checkbox"/>	Article 13(5)	Labeling and marking – Cadmium or Lead information	2024-02-18
<input type="checkbox"/>	Article 13(6)(b)	Labeling and marking – QR code	2027-02-18
<input checked="" type="checkbox"/>	Article 13(7)	Labeling and marking – Location	2024-02-18
<input checked="" type="checkbox"/>	Article 18	EU declaration of conformity	2024-02-18

NOTE:

It is evaluated to the date of issuing of the report. Further additional applicable requirements may apply after issue of this reports depending on the further published implementing and delegated acts to this regulation.

Attachment 1: Chemical test report according with Article 6 of (EU) 2023/1542 (180341238a 001, 15 pages)

deviation(s) found

no deviations found

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict

Chapter I	General provisions		P
Chapter II	Sustainability and safety requirements		P
Article 6	Restrictions on substances		
1.	In addition to the restrictions set out in Annex XVII to Regulation (EC) No 1907/2006 and in Article 4(2), point (a), of Directive 2000/53/EC, batteries shall not contain substances for which Annex I to this Regulation contains a restriction unless the conditions of that restriction are complied with.	See Attachment 1	P
2.	In the event of an unacceptable risk to human health or the environment, arising from the use of a substance in the manufacture of batteries or from the presence of a substance in the batteries when they are placed on the market, or arising during their subsequent life cycle stages, including during repurposing or the treatment of waste batteries, that is not adequately controlled and needs to be addressed on a Union-wide basis, the Commission shall adopt a delegated act in accordance with Article 89 to amend the restrictions in Annex I, pursuant to the procedure laid down in Articles 86, 87 and 88.		P
3.	Restrictions adopted pursuant to paragraph 2 of this Article shall not apply to the use of a substance in scientific research and development as defined in Article 3, point (23), of Regulation (EC) No 1907/2006, carried out in relation to batteries.		P
4.	Where a restriction adopted pursuant to paragraph 2 of this Article does not apply to product and process orientated research and development, as defined in Article 3, point (22), of Regulation (EC) No 1907/2006, that exemption, as well as the maximum quantity of the substance exempted, shall be specified in Annex I to this Regulation.		N/A
5.	By 31 December 2027, the Commission, assisted by the European Chemicals Agency set up under Regulation (EC) No 1907/2006 ('the Agency'), shall prepare a report on substances of concern, namely substances having an adverse effect on human health or the environment or hampering recycling for safe and high quality secondary raw materials, present in batteries or used in their manufacture. The Commission shall submit that report to the European Parliament and to the Council detailing its findings and shall consider the appropriate follow-up measures including the adoption of delegated acts as referred to in paragraph 2 of this Article.		N/A
ANNEX I	RESTRICTION ON SUBSTANCES		P

2023/1542											
Clause	Requirement + Test	Result - Remark	Verdict								
	<table border="1"> <thead> <tr> <th>Column 1 Designation of the substance or group of substances</th> <th>Column 2 Conditions of restriction</th> </tr> </thead> <tbody> <tr> <td>1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds</td> <td>Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.0005 % of mercury (expressed as mercury metal) by weight.</td> </tr> <tr> <td>2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds</td> <td>Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.002 % of cadmium (expressed as cadmium metal) by weight.</td> </tr> <tr> <td>3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds</td> <td>1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0.01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.</td> </tr> </tbody> </table>	Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction	1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.0005 % of mercury (expressed as mercury metal) by weight.	2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.002 % of cadmium (expressed as cadmium metal) by weight.	3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0.01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.		P
Column 1 Designation of the substance or group of substances	Column 2 Conditions of restriction										
1. Mercury CAS No 7439-97-6 EC No 231-106-7 and its compounds	Batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.0005 % of mercury (expressed as mercury metal) by weight.										
2. Cadmium CAS No 7440-43-9 EC No 231-152-8 and its compounds	Portable batteries, whether or not incorporated into appliances, light means of transport or other vehicles, shall not contain more than 0.002 % of cadmium (expressed as cadmium metal) by weight.										
3. Lead CAS No 7439-92-1 EC No 231-100-4 and its compounds	1. From 18 August 2024, portable batteries, whether or not incorporated into appliances, shall not contain more than 0.01 % of lead (expressed as lead metal) by weight. 2. The restriction set out in point 1 shall not apply to portable zinc-air button cells until 18 August 2028.										
Article 7	Carbon footprint of electric vehicle batteries, rechargeable industrial batteries and LMT batteries	Not such battery	N/A								
Article 8	Recycled content in industrial batteries, electric vehicle batteries, LMT batteries and SLI batteries	Not such battery	N/A								
Article 9	Performance and durability requirements for portable batteries of general use		N/A								
1.	From 18 August 2028 or 24 months after the date of entry into force of the delegated act referred to in paragraph 2, whichever is the latest, portable batteries of general use, excluding button cells, shall meet the minimum values for the electrochemical performance and durability parameters set out in Annex III as laid down in the delegated act adopted pursuant to paragraph 2.	Shall be compliant from 2028-08-18	N/A								
2.	By 18 August 2027, the Commission shall adopt a delegated act in accordance with Article 89 to supplement this Regulation by establishing mandatory minimum values for the electrochemical performance and durability parameters set out in Annex III for portable batteries of general use, excluding button cells.		N/A								
	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend the minimum values referred to in the first subparagraph or add electrochemical performance and durability parameters to those set out in Annex III in view of technical and scientific progress.		N/A								
	In preparing the delegated act referred to in the first subparagraph, the Commission shall consider the need to reduce the life cycle environmental impact of portable batteries of general use, including by means of increasing the resource efficiency thereof, and shall take into consideration relevant international standards and labelling schemes.		N/A								


2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	The Commission shall also ensure that the provisions laid down by the delegated act referred to in the first subparagraph do not have a significant adverse impact on the safety and functionality of those batteries or the appliances, light means of transport or other vehicles into which those batteries are incorporated, the affordability and the cost for end-users and the industry's competitiveness.		N/A
3.	By 31 December 2030, the Commission shall assess the feasibility of measures to phase out nonrechargeable portable batteries of general use with a view to minimising their environmental impact based on the life cycle assessment methodology and viable alternatives for end-users. To that end, the Commission shall submit a report to the European Parliament and to the Council and consider taking the appropriate measures, including the adoption of legislative proposals for either the phase out or the setting of ecodesign requirements.		N/A
Annex III Part A	Parameters for non-rechargeable batteries	Shall be compliant from 2028-08-18	N/A
	Minimum average duration (tAvg) :		N/A
	Delayed discharge performance (%) :		N/A
	Resistance to leakage – no escape of electrolyte, gas and other material:		N/A
Annex III Part B	Parameters for rechargeable batteries		N/A
	Rated capacity (%)		N/A
	Charge (capacity) retention (%) :		N/A
	Charge (capacity) recovery (%) :		N/A
	Endurance in cycles (cycles) :		N/A
	Resistance to leakage – no escape of electrolyte, gas and other material		N/A
Article 10	Performance and durability requirements for rechargeable industrial batteries, LMT batteries and electric vehicle batteries	Not such battery	N/A
Article 11	Removability and replaceability of portable batteries and LMT batteries	Not required by the client for this report, not mandatory until the specified date.	N/A
1.	Any natural or legal person that places on the market products incorporating portable batteries shall ensure that those batteries are readily removable and replaceable by the end-user at any time during the lifetime of the product. That obligation shall only apply to entire batteries and not to individual cells or other parts included in such batteries.		N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	A portable battery shall be considered readily removable by the end-user where it can be removed from a product with the use of commercially available tools, without requiring the use of specialised tools, unless provided free of charge with the product, proprietary tools, thermal energy, or solvents to disassemble the product.		N/A
	Any natural or legal person that places on the market products incorporating portable batteries shall ensure that those products are accompanied with instructions and safety information on the use, removal and replacement of the batteries. Those instructions and that safety information shall be made available permanently online, on a publicly available website, in an easily understandable way for end-users.		N/A
	This paragraph shall be without prejudice to any specific provisions ensuring a higher level of protection of the environment and human health relating to the removability and replaceability of portable batteries by end-users laid down in any Union law on electrical and electronic equipment as defined in Article 3(1), point (a), of Directive 2012/19/EU.		N/A
2.	<p>By way of derogation from paragraph 1, the following products incorporating portable batteries may be designed in such a way as to make the battery removable and replaceable only by independent professionals</p> <p>(a) appliances specifically designed to operate primarily in an environment that is regularly subject to splashing water, water streams or water immersion, and that are intended to be washable or rinseable;</p> <p>(b) professional medical imaging and radiotherapy devices, as defined in Article 2, point (1), of Regulation (EU) 2017/745, and in vitro diagnostic medical devices, as defined in Article 2, point (2), of Regulation (EU) 2017/746.</p> <p>The derogation set out in point (a) of this paragraph shall only be applicable where such derogation is required to ensure the safety of the user and the appliance.</p>		N/A
3.	The obligations laid down in paragraph 1 shall not apply where continuity of power supply is necessary and a permanent connection between the product and the respective portable battery is required to ensure the safety of the user and the appliance or, for products that collect and supply data as their main function, for data integrity reasons.		N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
4.	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend paragraph 2 of this Article by adding further products to be exempted from the removability and replaceability requirements laid down in paragraph 1 of this Article.		N/A
5.	Any natural or legal person that places on the market products incorporating LMT batteries shall ensure that those batteries, as well as individual battery cells included in the battery pack, are readily removable and replaceable by an independent professional at any time during the lifetime of the product.		N/A
6.	For the purposes of paragraphs 1 and 5, a portable battery or LMT battery shall be considered readily replaceable where, after its removal from an appliance or light means of transport, it can be substituted by another compatible battery without affecting the functioning, the performance or the safety of that appliance or light means of transport.		N/A
7.	Any natural or legal person that places on the market products incorporating portable batteries or LMT batteries shall ensure that those batteries are available as spare parts of the equipment that they power for a minimum of five years after placing the last unit of the equipment model on the market, with a reasonable and non-discriminatory price for independent professionals and end-users.		N/A
8.	Software shall not be used to impede the replacement of a portable battery or LMT battery, or of their key components, with another compatible battery or key components.		N/A
9.	The Commission shall publish guidelines to facilitate the harmonised application of this Article.		N/A
Article 12	Safety of stationary battery energy storage systems		N/A
CHAPTER III	Labelling, marking and information requirements		P
Article 13	Labelling and marking of batteries		P
1.	From 18 August 2026 or 18 months after the date of entry into force of the implementing act referred to in paragraph 10, whichever is the latest, batteries shall bear a label containing the general information on batteries set out in Part A of Annex VI.	Shall be compliant from 2026-08-18	N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
2.	From 18 August 2026 or 18 months after the date of entry into force of the implementing act referred to in paragraph 10, whichever is the latest, rechargeable portable batteries, LMT batteries and SLI batteries shall bear a label containing information on their capacity.	Not such battery	N/A
3.	From 18 August 2026 or 18 months after the date of entry into force of the implementing act referred to in paragraph 10, whichever is the latest, nonrechargeable portable batteries shall bear a label containing information on their minimum average duration when used in specific applications and a label indicating 'non-rechargeable'.	Not such battery	N/A
4.	From 18 August 2025, all batteries shall be marked with the symbol for separate collection of batteries ('separate collection symbol') as shown in Part B of Annex VI.	Separate collection symbol marked.	P
	The separate collection symbol shall cover at least 3 % of the area of the largest side of the battery up to a maximum size of 5 × 5 cm.		N/A
	In the case of cylindrical battery cells, the separate collection symbol shall cover at least 1,5 % of the surface area of the battery and shall have a maximum size of 5 × 5 cm.		P
	Where the size of the battery is such that the separate collection symbol would be smaller than 0,47 × 0,47 cm, the battery does not need to be marked with that symbol. Instead, a separate collection symbol measuring at least 1 × 1 cm shall be printed on the packaging.		N/A
5.	All batteries containing more than 0,002 % cadmium or more than 0,004 % lead, shall be marked with the chemical symbol for the metal concerned: Cd or Pb.	Not exceed the limit.	N/A
	The relevant chemical symbol indicating the heavy metal content shall be printed beneath the separate collection symbol and shall cover an area of at least one-quarter the size of that symbol.		N/A
6.	From 18 February 2027, all batteries shall be marked with a QR code as described in Part C of Annex VI. The QR code shall provide access to the following:	Shall be compliant from 2027-08-18	N/A
	(a) for LMT batteries, industrial batteries with a capacity greater than 2kWh and electric vehicles batteries, the battery passport in accordance with Article 77;		N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	(b) for other batteries, the applicable information referred to in paragraphs 1 to 5 of this Article, the declaration of conformity referred to in Article 18, the report referred to in Article 52(3) and the information regarding the prevention and management of waste batteries laid down in Article 74(1), points (a) to (f);		N/A
	(c) for SLI batteries, the amount of cobalt, lead, lithium or nickel recovered from waste and present in active materials in the battery, calculated in accordance with Article 8.		N/A
	This information shall be complete, up-to-date and accurate.		N/A
7.	The labels and the QR code referred to in paragraphs 1 to 6 shall be printed or engraved visibly, legibly and indelibly on the battery. Where this is not possible or not warranted on account of the nature and size of the battery, the labels and the QR code shall be affixed to the packaging and to the documents accompanying the battery.		P
8.	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend this Regulation to provide for alternative types of smart labels for use instead of or in addition to the QR code, in view of technical and scientific progress.		N/A
9.	Batteries that have been subject to preparation for reuse, preparation for repurposing, repurposing or remanufacturing shall bear new labels or shall be marked with markings in accordance with this Article, and containing information on their change of status in accordance with point 4 of Annex XIII, which shall be accessible through the QR code.		N/A
10.	The Commission shall, by 18 August 2025, adopt implementing acts to establish harmonised specifications for the labelling requirements referred to in paragraphs 1, 2 and 3 of this Article. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 90(3).		N/A
ANNEX VI	LABELLING, MARKING AND INFORMATION REQUIREMENTS		P
Part A:	General information on batteries		P
	Information on the label of a battery shall comprise the following information regarding the battery:	Partially evaluated	P
	1. information identifying the manufacturer in accordance with Article 38(7);		P
	2. the battery category and information identifying the battery in accordance with Article 38(6);	Shall be compliant from 2026-08-18	N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
	3. the place of manufacture (geographical location of a battery manufacturing plant);		P
	4. the date of manufacture (month and year);		P
	5. the weight;	Shall be compliant from 2026-08-18	N/A
	6. the capacity;	Capacity declared on the label, not evaluated, shall be compliant from 2026-08-18	N/A
	7. the chemistry;	Shall be compliant from 2026-08-18	N/A
	8. the hazardous substances present in the battery, other than mercury, cadmium or lead;	Shall be compliant from 2026-08-18	N/A
	9. usable extinguishing agent;	Shall be compliant from 2026-08-18	N/A
	10. critical raw materials present in the battery in a concentration of more than 0,1 % weight by weight.	Shall be compliant from 2026-08-18	N/A
Part B:	Symbol for separate collection of batteries 	Marked on the battery surface	P
Part C:	QR code	Shall be compliant from 2027-08-18	N/A
	The QR code shall be in high contrast to the background colour and of a size that is easily readable by a commonly available QR reader, such as those integrated in hand-held communication devices.		N/A
Article 14	Information on the state of health and expected lifetime of batteries		N/A
CHAPTER IV	Conformity of batteries		P
Article 18	EU declaration of conformity		P
1.	The EU declaration of conformity shall state that the compliance with the requirements laid down in Articles 6 to 10 and Articles 12, 13 and 14 has been demonstrated.	Applicable article stated	P

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
2.	The EU declaration of conformity shall have the model structure set out in Annex IX, shall contain the elements specified in the relevant modules set out in Annex VIII, and shall be kept up to date. It shall be translated into the language or languages required by the Member State in which the battery is placed or made available on the market or put into service. It shall be drawn up in electronic format and, where requested, it shall be provided in paper format.	EU DECLARATION OF CONFORMITY content provided	P
3.	Where a battery is subject to more than one Union act requiring an EU declaration of conformity, a single EU declaration of conformity shall be drawn up in respect of all such Union acts. That declaration shall state the Union acts concerned and their publication references.		N/A
4.	By drawing up the EU declaration of conformity, the manufacturer shall assume responsibility for the compliance of the battery with the requirements laid down in this Regulation.		P
5.	Without prejudice to paragraph 3, a single EU declaration of conformity may be made up of one or more individual EU declarations of conformity already drawn up in compliance with a different Union act or acts, in order to reduce the administrative burden on economic operators.		N/A
ANNEX IX	EU DECLARATION OF CONFORMITY No* ... * (identification number of the declaration)	EU declaration of conformity provided and checked	P
Article 19	General principles of the CE marking		P
	The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.		P
Article 20	Rules and conditions for affixing the CE marking		P
1.	The CE marking shall be affixed visibly, legibly and indelibly to the battery. Where that is not possible or not warranted due to the nature of the battery, it shall be affixed to the packaging and to the documents accompanying the battery.		P
2.	The CE marking shall be affixed before the battery is placed on the market or put into service.		P
3.	The CE marking shall be followed by the identification number of the notified body where required under Annex VIII. That identification number shall be affixed by the notified body itself or, under its instructions, by the manufacturer or by its authorised representative.	Not such battery	N/A

2023/1542			
Clause	Requirement + Test	Result - Remark	Verdict
4.	The CE marking and the identification number referred to in paragraph 3 may be followed, if applicable, by any pictogram or other mark indicating a special risk, use or any danger linked to the use, storage, treatment or transport of the battery.		N/A
5.	Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.		N/A
CHAPTER V	Notification of conformity assessment bodies		N/A
CHAPTER VI	Obligations of economic operators other than the obligations in Chapters VII and VIII	The obligations shall be considered by economic operator when delivering the battery	P
CHAPTER VII	Obligations of economic operators as regards battery due diligence policies		N/A
CHAPTER VIII	Management of waste batteries	Shall apply from 18 August 2025	P
CHAPTER IX	Digital battery passport	Not applicable to portable batteries	N/A
ANNEX X	LIST OF RAW MATERIALS AND RISK CATEGORIES		N/A
ANNEX XI	CALCULATION OF COLLECTION RATES FOR WASTE PORTABLE BATTERIES AND WASTE LMT BATTERIES		N/A
ANNEX XII	STORAGE AND TREATMENT, INCLUDING RECYCLING, REQUIREMENTS		N/A
ANNEX XIV	MINIMUM REQUIREMENTS FOR SHIPMENTS OF USED BATTERIES		N/A
ANNEX XV	CORRELATION TABLE		N/A

- End of report -

Report No.: 180341238a 001 Page 1 of 14

Client: JIAXING GEDD TECHNOLOGY CO., LTD

Contact Information: Building 2, No.155, Kapa Road, Dayun Town, Jiashan County, Jiaxing City, Zhejiang, P.R. China

**Identification/
Model No(s):** Alkaline Zn/MnO₂ Battery
LR6

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2025-07-29, 2025-08-18

Testing Period: 2025-07-29 to 2025-08-21

Place of testing: Chemical laboratory Ningbo

Test Specification:

Please refer to "Test Result Summary List" on page 2 for details

Other information:

Reference Style No(s): LR03

For and on behalf of
TÜV Rheinland/CCIC (Ningbo) Co., Ltd.



2025-08-25

Dream Wang / Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

Test Report No.: 180341238a 001

Page 2 of 14

Test Result Summary :**Test Specification:****Test result:**

Restrictions of hazardous substances for Battery - according to Article 6(1) of Regulation (EU) 2023/1542	
1 Heavy Metal Test for Battery - according to Annex I of Regulation (EU) 2023/1542	PASS
2 Total Cadmium Content in accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011 and (EU) No. 835/2012 and (EU) No.217/2016.	PASS
3 Organotin compounds content according to REACH Regulation (EC) No. 1907/2006 Annex XVII Item 20 and amendment Commission Regulation (EU) No. 276/2010 (formerly known as 2009/425/EC)	PASS
4 Dimethyl fumarate Content - According to REACH regulation (EC) No. 1907/2006 Annex XVII Entry 61 and its amendments	PASS
5 Polycyclic aromatic hydrocarbons (PAHs) - REACH regulation (EC) No. 1907/2006 with Amendment No. 552/2009· Annex XVII Item No. 50 and (EU) No.1272/2013	PASS
6 Selected Perfluorinated carboxylic acids (C9-C14 PFCAs) and related substances	PASS
7 REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entry 51 : Phthalates	PASS
8 Octabromodiphenylether (OctaBDE) content accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII entry 45	PASS

Test Report No.: 180341238a 001

Page 3 of 14

Material List:

Item: Alkaline Zn/MnO₂ Battery
LR6

Material No.	Material	Color	Location
A001	Battery	yellow+black	refer to photo
A002	Plastic	white	refer to photo
A003	Paper	white	refer to photo
A004	Carbon Black	black	refer to photo
A005	Plastic + adhesive	yellow+black	refer to photo

Test Report No.: 180341238a 001

Page 4 of 14

1.Heavy Metal Test for Battery - according to Annex I of Regulation (EU) 2023/1542

Test Method: Acid digestion, analyzed by ICP-OES/AAS

Test result

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement		Test Result
					Maximum Permissible Limit	Labelling Limit	
T001	A001	Cadmium	%	0.001	Portable batteries: 0.002	0.002	< RL
		Lead	%	0.001	Portable batteries: 0.01#	0.004	< RL
		Mercury	%	0.0005	0.0005	n.a.	< RL

Abbreviation: Pb = Lead
 Cd = Cadmium
 Hg = Mercury
 < = less than
 n.a.= not applicable
 RL = Reporting Limit

Remark:

- # The cadmium restriction shall not apply to portable batteries and accumulators intended for use in i) emergency and alarm systems, including emergency lighting and ii) medical equipment according to article 4(3) of Directive 2006/66/EC and its amendments.

Test Report No.: 180341238a 001

Page 5 of 14

2.Total Cadmium Content

Test Method: Acid digestion, analyzed by AAS/ ICP-OES

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	A002 + A003 + A005	Cadmium	mg/kg	10	100	< RL
T002	A004	Cadmium	mg/kg	10	100	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram

Remark:

* Regulations on Cadmium

EU	Legislation	Maximum Permissible Limit				
		Plastic materials	Paint (wet state)	Paint on the painted articles	Paint (high zinc content)	Metal parts of jewellery and imitation jewellery articles and hair accessories
EC	REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011, (EU) No. 835/2012 and (EU) No. 217/2016.	100mg/kg	100mg/kg	1000mg/kg	1000mg/kg	100mg/kg

Country	Legislation	Maximum Permissible Limit
		Paint, plastic, plating/ coating of surface treatment
Switzerland	Switzerland Chemikalien-Risikoreduktions-Verordnung-ChemRRV, 814.81, 18 May 2005	100mg/kg

Test Report No.: 180341238a 001

Page 6 of 14

3. Organotin compounds content

 Test Method: Organic solvent extraction, GCMS
 Ref. to ISO/TS 16179:2012

Test No.				T001
Material No.				A002 + A003 + A005
Test Parameter	Unit	RL	Regulatory Requirement	Result
TBT(Tributyltin) by weight of tin	%	0.01	--	< RL
TPT(Triphenyltin) by weight of tin	%	0.01	--	< RL
TOT(Trioctyltin) by weight of tin	%	0.01	--	< RL
TCyT(Tricyclohexyltin) by weight of tin	%	0.01	--	< RL
TPrT(Tripopyltin) by weight of tin	%	0.01	--	< RL
Sum of Tin of tri-substituted organotins	%	NA	0.1	< RL
DBT(Dibutyltin) by weight of tin	%	0.01	0.1	< RL
DOT(Dioctyltin) by weight of tin	%	0.01	0.1	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 % = percentage
 NA = Not Applicable

Test Report No.: 180341238a 001

Page 7 of 14

Remark:

- * Single components with an amount of <0.01% were not considered in the calculation of the sum. In the case of all five tri-substituted organotin compounds were not detected, the result is stated < RL
- ** The assessment for tri-substituted organotin compounds is based on the sum of TBT, TPT, TOT, TCyT and TPrT by weight of tin only.
- *** According to REACH Regulation (EC) No. 1907/2006 Annex XVII Entry 20 and amendment Commission Regulation (EU) No. 276/2010 (formerly known as 2009/425/EC), organotin compounds shall not be used or be placed on the market.

Type of organotin compounds	Maximum Permissible Limit	Implementation date
Tri-substituted organotin compounds, e.g. tributyltin (TBT) compounds and triphenyltin (TPT) compounds	0.1 % by weight of tin	1 July 2010
Dibutyltin (DBT) compounds in mixtures and articles for supply to the general public	0.1 % by weight of tin	1 January 2012 The below products will not be applicable until 1 January 2015: - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades
Dioctyltin (DOT) compounds - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)	0.1 % by weight of tin	1 January 2012

Test Report No.: 180341238a 001

Page 8 of 14

4. Dimethyl fumarate (CAS No. 624-49-7)

Test Method: Organic solvent extraction, GCMS analysis

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	A002 + A003 + A005	Dimethyl fumarate	mg/kg	0.025	0.1	< RL

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram

Remark:

- * According to REACH Regulation (EC) No. 1907/2006 Annex XVII Item 61 and amendment Commission Regulation (EU) No. 412/2012 (formerly known as 2012/48/EU), dimethylfumarate (DMF) shall not be used in articles or any parts thereof in concentrations greater than 0.1 mg/kg. Articles or any parts thereof containing DMF in concentrations greater than 0.1 mg/kg shall not be placed on the market.

Test Report No.: 180341238a 001

Page 9 of 14

5. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: Organic solvent extraction, GCMS

				Test No.	T001
				Material No.	A005
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.2	1	< RL
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.2	1	< RL
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.2	1	< RL
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.2	1	< RL
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.2	1	< RL
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.2	1	< RL
Chrysene (CHR)	218-01-9	mg/kg	0.2	1	< RL
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.2	1	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

Remark:

* Requirement according to REACH regulation (EC) No. 1907/2006 with Amendment No. 552/2009 Annex XVII Item No. 50 and (EU) No.1272/2013, are summarized as below:

Scope	Parameter	Unit	Maximum permissible limit
Articles with direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, made of plastic and rubber shall follow below limit:			
Such articles include amongst others: ---sport equipment such as bicycles, golf clubs, racquets ---household utensils, trolleys, walking frames --- tools for domestic use --- clothing, footwear, gloves and sportswear ---watch-straps, wrist-bands, masks, head-bands	Each of 8 listed PAHs	mg/kg	1
Toys, including activity toys, and childcare articles	Each of 8 listed PAHs	mg/kg	0.5

Test Report No.: 180341238a 001

Page 10 of 14

6. Selected Perfluorinated carboxylic acids (C9-C14 PFCAs) and related substances

Test Method: In house method, determination by CI-GCMS, GC-MSMS and LC-MSMS

					Test No.	T001
					Material No.	A002 + A003 + A005
Test Parameter	CAS NO	Unit	RL	Customer's Requirement	Result	
Perfluorononan-1-oic acid (PFNA)	375-95-1	mg/kg	0.01	-	< RL	
Perfluorodecanoic acid (PFDA)	335-76-2	mg/kg	0.01	-	< RL	
Perfluoroundecanoic acid (PFUnA)	2058-94-8	mg/kg	0.01	-	< RL	
Perfluorododecanoic acid (PFDoA)	307-55-1	mg/kg	0.01	-	< RL	
Perfluorotridecanoic acid (PFTrA)	72629-94-8	mg/kg	0.01	-	< RL	
Perfluorotetradecanoic acid (PFTeA)	376-06-7	mg/kg	0.01	-	< RL	
Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	-	< RL	
Sum of C9-C14 PFCAs	--	mg/kg	--	0.025	< RL	
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.25	-	< RL	
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.25	-	< RL	
Perfluorodecanesulfonate (PFDS)	335-77-3	mg/kg	0.01	-	< RL	
2H,2H,3H,3H-Perfluoroundecanoic acid (H4PFUnA)	34598-33-9	mg/kg	0.01	-	< RL	
1H,1H,2H,2H-Perfluorododecanesulfonic acid (10:2 FTS)	120226-60-0	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2-FTSA)	39108-34-4	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	-	< RL	
1H, 1H, 2H, 2H-Perfluorodecyl dichloromethylsilane (C8-PFSi)	3102-79-2	mg/kg	0.1	-	< RL	
8:2 Fluorotelomer olefin (8:2 FTO)	21652-58-4	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2-FTA)	27905-45-9	mg/kg	0.1	-	< RL	
Perfluorooctylethyl Methacrylate (8:2-FTMAC)	1996-88-9	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Heptadecafluoro-1-iododecane (8:2-FTI)	2043-53-0	mg/kg	0.1	-	< RL	
2-(Perfluorodecyl)ethyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.1	-	< RL	
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.1	-	< RL	
Sum of C9-C14 PFCA related substances	--	mg/kg	--	0.26	< RL	
Conclusion	--	--	--	--	Pass	

Test Report No.: 180341238a 001

Page 11 of 14

Abbreviation: < = Less than
RL = Reporting Limit
mg/kg = milligram per kilogram

Test Report No.: 180341238a 001

Page 12 of 14

7.REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entry 51 : Phthalates

Test Method: Ref. to IEC 62321-8:2017

					Test No.	T001
					Material No.	A002 + A003 + A005
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	0.1	< RL	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	< RL	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	0.1	< RL	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	0.1	< RL	
Sum of above (DEHP +DBP+BBP+DIBP)	--	%	0.005	0.1	< RL	
Conclusion					Pass	

Abbreviation: < = less than
 RL = Reporting Limit
 % = percentage

Remark:

- Requirement of REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51:

Parameter	Unit	Maximum Permissible Limit
Plasticised materials in toys and childcare articles, or other articles# place on the market;		
Diethylhexyl phthalate (DEHP) Dibutyl phthalate (DBP) Benzylbutyl phthalate (BBP) Diisobutyl phthalate (DIBP)	%	0.1 (individually or sum of the four phthalates) Effective after 7 July 2020.

Denote:

Examples of articles that are excluded from the restriction

- Articles exclusively for industrial / agricultural use / use in open air, provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin (i.e. Continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.)
- Aircraft and motor vehicles (Directive 2007/46/EC) placed on the market before 7 January 2024, or articles for use exclusively in the maintenance or repair of them
- Measuring devices for laboratory use;
- Food contact material and articles within the scope of Regulation (EC) No 1935/2004 or Commission Regulation (EU) No 10/2011
- Medical devices (Directive 90/385/EEC, 93/42/EEC or 98/79/EC)
- Electrical and electronic equipment within the scope of Directive 2011/65/EU
- Immediate packaging of medicinal products (Regulation (EC) No 726/2004, Directive 2001/82/EC or Directive 2001/83/EC)
- Toys and childcare articles covered by paragraphs 1 or 2 of entries 51

- Single component with an amount below reporting limit was not considered by the calculation of the sum. In the case of all phthalates were not detected, the result is stated <RL.

Test Report No.: 180341238a 001

Page 13 of 14

8. Octabromodiphenylether (OctaBDE) content accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII entry 45

Test Method: Organic solvent extraction, analyzed by GCMS & LCMS

				Test No.	T001	T002
				Material No.:	A002	A003
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result
Octabromodiphenylether (OctaBDE)	32536-52-0	mg/kg	50	1000	< RL	< RL

				Test No.	T003
				Material No.:	A005
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result
Octabromodiphenylether (OctaBDE)	32536-52-0	mg/kg	50	1000	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram

Remark:

- * According to REACH regulation (EC) No. 1907/2006 entry 45 of octabromo derivative (Octabromodiphenyl ether), shall not be used as substance, or as a constituent of other substances/in mixtures, or as constituents of the flame-retarded parts or articles, in concentrations greater than 0.1 % by weight.

Sample Photos



LR6



LR03

- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. Scope

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBCB") is made between the client and the provider of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China here refers to the regions within the territories of China. The client hereby indicates:

(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of the use of the services of TÜV Rheinland, or

(ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.

1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.

1.3 Any standard terms and conditions of the client if any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

1.4 In the context of an ongoing business relationship with the client, this GTBCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. Quotations

2.1 Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. Coming into effect and duration of contracts

3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the receipt requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.

3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for the extension as stated in writing by both contracting parties with a three-month notice prior to the end of the contractual term.

4. Scope of services

4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the services to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking of control parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such) are not covered. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.

4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.

4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of the tested or examined parts nor of the installation as a whole or its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of design, installation or maintenance of the installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.

4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.

4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports and/or results, reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in part - to third parties in accordance with clause 11.4.

4.8 The client understands and agrees that in order to perform the contract with TÜV Rheinland, the client may need to sign one or more contracts/agreements with a/more third party(ies) and establish legal relationships with those third party(ies) according to such contracts/agreements. TÜV Rheinland is not responsible for the legal relationship between the client according to this contract and the direct services actually to be provided by our company in the service process. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and certification services) to be provided by third parties, TÜV Rheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that TÜV Rheinland can also subcontract to a third party the contract. The relevant third party shall be responsible for its own responsibility and/or risk for any services to be provided by any third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client to testing and/or certification bodies, agency services provided by any other third party(ies), etc.). Besides, the client shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract. If the client is required to provide any annual renewal/surveillance of the installations, TÜV Rheinland will provide the testing and certification rules, such fees are not within the scope of the contract price, the client shall timely perform the obligation to provide the necessary data and information for the corresponding fees. If the client fails to perform such obligations of the annual renewal/surveillance or fees payment, it may lead to adverse consequences such as failure/suspension/cancellation/invalidity of testing and/or certification results, which shall be borne by the client.

4.9 For the service contract agreed in the contract, if the client requires TÜV Rheinland to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client, TÜV Rheinland shall not take any responsibility for any problems during such delivery and the transportation process (including but not limited to any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. Performance periods/dates

5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.

5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.

5.3 Articles 5.1 and 5.2 also apply, even without express agreement by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.

5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.

5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, in its own interest, the client may agree in writing with TÜV Rheinland, in which the client enables the client to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

6. The client's obligation to cooperate

6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

a) it has required statutory qualifications;

b) the product, service or management system to be certified complies with applicable laws and regulations; and

c) it doesn't have any legal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts (People's Republic of China).

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.

6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. Prices

7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.

7.2 Unless otherwise agreed in writing, the price shall be in local currency of the work.

7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. Payment terms

8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.

8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the contract is not terminated within 30% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the increase in fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

8.9 Only legally established and undisputed claims may be offset against payments by TÜV Rheinland.

8.10 TÜV Rheinland shall have the right at all times to set off any amount due or payable by the client, including but not limited to set-off against any past due by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

9. Acceptance of work

9.1 Any part of the work required or which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.

9.2 If acceptance is required or contractually agreed in an instalment case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.

9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.

9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.

9.5 During the Follow-Up stage, the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit date, TÜV Rheinland is entitled to demand a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to claim the same damages in the event of a breach of contract. If the client is not compensated for expenses if the service is not called within one year after the order has been placed, the client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. Confidentiality

10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing technology applied by the client or by TÜV Rheinland, or by the client or by the client or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form. Confidential information is expressly not the data and know-how or other technical information transmitted by e-mail. If confidential information is not and not proprietary to the client) with the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services. 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party does not do so, the confidentiality period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g. Wechat, etc.) authorized by TÜV Rheinland to transfer confidential information. The disclosing party shall ensure that its client send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakage of data caused by the adoption of the disclosing party's platform and/or data handling methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving and/or which is created during performance of the contract by the disclosing party, may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party.

10.4 The client may not copy, distribute, publish or otherwise disclose by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, public bodies, accreditation bodies or third parties and/or to the media. If the client is required to do so, the client shall ensure that the disclosing party is informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party does not do so, the confidentiality period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g. Wechat, etc.) authorized by TÜV Rheinland to transfer confidential information. The disclosing party shall ensure that its client send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakage of data caused by the adoption of the disclosing party's platform and/or data handling methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.5 All confidential information which the disclosing party transmits or otherwise discloses to the receiving and/or which is created during performance of the contract by the disclosing party, may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party.

10.6 The client may not copy, distribute, publish or otherwise disclose by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, public bodies, accreditation bodies or third parties and/or to the media. If the client is required to do so, the client shall ensure that the disclosing party is informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party does not do so, the confidentiality period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g. Wechat, etc.) authorized by TÜV Rheinland to transfer confidential information. The disclosing party shall ensure that its client send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakage of data caused by the adoption of the disclosing party's platform and/or data handling methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.7 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party shall ensure that these employees to observe the same level of secrecy as set forth in this confidentiality clause.

10.8 Information for which the receiving party can furnish proof that:

a) it was generally known at the time of disclosure or has become general knowledge without violation of any confidentiality obligations by the disclosing party; or

b) it was disclosed to the receiving party by a third party entitled to disclose this information; or

c) the receiving party already possessed this information prior to disclosure by the disclosing party; or

d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute confidential information as defined in this confidentiality clause.

10.9 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and (ii) on request by the disclosing party, to destroy or delete all confidential information, including all copies, and to confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not include reports and certificates issued for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to comply with the requirements of the contract and general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.

10.10 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights and rights of use, publications

11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant other parties the right to use the work results for individual or all types of use ("right of use").

11.2 The client grants to TÜV Rheinland a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.

11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTBCB is subject to full payment of the remuneration by the client to TÜV Rheinland.

11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.

11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any quotation of the introduction of TÜV Rheinland shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annual recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, the client may, in the event that the total and accumulated liability according to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

11.6 The limitation of liability according to clause 11.5 shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the contractually agreed or in cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

11.7 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately in its own expense and, as far as possible, to return the work results to the client.

11.8 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of TÜV Rheinland.

12. Liability of TÜV Rheinland

12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annual recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, the client may, in the event that the total and accumulated liability according to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

12.2 The limitation of liability according to clause 12.1 shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the contractually agreed or in cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

12.3 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services or the acts of the personnel of such personnel made available as regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from in connection with such personnel's acts.

12.4 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract for damages caused by the client's personnel.

12.5 The limitation periods for claims for damages shall be based on statutory provisions.

12.6 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Export control

13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.

13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or

sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. Data protection notice

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of the performance of this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, TÜV Rheinland may also process personal data of the client. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has been disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the personal responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51106 Cologne, Germany.

15. Retention of test material and documentation

15.1 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.

15.2 Charges apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.

15.3 The client understands and agrees that TÜV Rheinland may be placed in storage at their premises, the relevant samples or documents must be made available to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making the samples or documents available, TÜV Rheinland may be placed in storage for material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

15.4 The client understands and agrees that TÜV Rheinland may be placed in storage for material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

15.5 The client understands and agrees that TÜV Rheinland may be placed in storage for material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

16. Termination of the contract

16.1 Notwithstanding clause 3.3 of the GTBCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services, in one or more of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to a loss or suspension of its accreditation or notification.

16.2 For good cause, TÜV Rheinland may consider giving a written notice to the client to terminate the contract without being bound by any liabilities and/or claims for relevant service fees, claims for services provided by TÜV Rheinland due to the termination date of the contract. The aforesaid good causes includes but not limited to the following:

a) the client does not fulfil its obligations under the contract, in particular if the client repeatedly fails to comply with the conditions in the conditions within the agreed time frame;

b) the client misuses the certificate or certification mark or uses it in violation of the contract;

c) the event of several consecutive delays in the performance of the contract;

d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship;

e) in the event of any serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;

f) if TÜV Rheinland, in its sole discretion, deems it necessary to temporarily or finally not able or intend to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, loss of accreditation or notification, or other.

16.3 If the country/region where the registration of the respective service project in the contract does not belong to the insurance coverage applicable to TÜV Rheinland, and TÜV Rheinland believes that there is a risk or some risks beyond its control to continue to perform the contract, the client shall be obliged to provide written notice to TÜV Rheinland for good cause. TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term. The client shall be obliged to provide written notice to TÜV Rheinland if there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.

16.4 TÜV Rheinland is also entitled to give written notice to the client if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. Force Majeure

17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably have avoided or overcome the event; and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the affected Party.

17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1 of this Clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion and revolution; (iii) strikes or other industrial action; (iv) acts of terrorism, sabotage or piracy; (v) currency and trade restriction, embargo, sanction; (vi) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vii) explosion, fire, destruction of equipment, prolonged breakdown of transport, telecommunication, information system or energy; (viii) general labor disturbance such as boycott, strike and lock-out; (ix) slow-occupation of territories and premises.

17.3 The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract from any liability in damages or from any other contractual remedy for breach of contract, from the time at which the impediment causes inability to perform, provided that the notice thereof is given without delay. If notice thereof is not given without delay, the relief is effective from the time at which notice thereof reaches the other Party. Where the effect of the impediment or event involved is temporary, the above provisions shall apply only as long as the impediment involved impedes performance of the affected Party. Where the duration of the impediment involved has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, the affected Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. Hardship

18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.

18.2 Notwithstanding paragraph 1 of this Clause, where a Party proves that:

(a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that

(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. Partial invalidity, written form, place of jurisdiction and dispute resolution

19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.

19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.

19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be the law of the country in which the contract was concluded.

19.4 If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the law of the People's Republic of China.

19.5 If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

19.6 If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.

19.7 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.

19.8 Unless otherwise stipulated in the contract, no mediation or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:

(a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party;

(b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association (CAA) to be settled by arbitration in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei;

(c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration in accordance with its then current Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

19.9 The decision of the respective arbitration institution shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.