

Prüfbericht-Nr.: <i>Test report no.:</i>	CN24SGIM 001	Auftrags-Nr.: <i>Order no.:</i>	168472301	Seite 1 von 43 <i>Page 1 of 43</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-03-04	
Auftraggeber: <i>Client:</i>	Lianying Technology (Shenzhen) Co., Ltd. C1, 24th Floor, Building 12, Le Hui Center, Jihua Road, Bantian Street, Longgang District, Shenzhen, Guangdong, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Coin Manganese Dioxide Lithium Battery			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	CR1216, CR1220, CR1225, CR1616, CR1632, CR2016, CR2025, CR2032, CR2412, CR2430, CR2450, CR2477, CR3032			
Auftrags-Inhalt: <i>Order content:</i>	Certificate of conformity			
Prüfgrundlage: <i>Test specification:</i>	REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-02-29	See Attachment 2 for photo documentation		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003666133-001~011			
Prüfzeitraum: <i>Testing period:</i>	2024-03-06 - 2024-03-20			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
erstellt von: <i>created by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2024-04-09	Ausstellungsdatum: <i>Issue date:</i>	2024-04-09	
Stellung / Position:	Engineer	Stellung / Position:	Reviewer	
Sonstiges / <i>Other:</i>	Articles 6, 18-20 of (EU) 2023/1542 evaluated in this report, valid until 2025.08.17. This report does not evidence compliance of the provided sample with the relevant standards but only with the referred tests. This test report documents the findings of examination conducted on the delivered product mentioned above only. This report does not entitle the applicant to carry any safety mark on this or similar products. Further for sales or other application purposes of the tested product, any reference to TÜV Rheinland or a test through TÜV Rheinland is only permissible with prior written consent of TÜV Rheinland.			
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				
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>				

Prüfbericht-Nr.: CN24SGIM 001
Test report no.:

Seite 2 von 43
Page 2 of 43

Anmerkungen
Remarks

1	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. <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>
2	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 <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>
3	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. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	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. <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>

TEST REPORT

REGULATION (EU) 2023/1542 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 12 July 2023

concerning batteries and waste batteries, amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC

Report Number CN24SGIM 001

Date of issue See cover page

Total number of pages See cover page

Testing location TÜV Rheinland (Shenzhen) Co., Ltd.
1F East & 3F West -4F, Cybio Technology Building No.1, No.16
Kejibei 2nd Road, High-Tech Industrial Park North Nanshan
District, 518057, Shenzhen, China

Testing Laboratory TÜV Rheinland (Shenzhen) Co., Ltd.

Applicant's name See cover page

Address See cover page

Test specification:

Standard See cover page

Test procedure See cover page

Non-standard test method N/A

Test Report Form No Rev. 2023-08-21

Test Report Form(s) Originator TÜV Rheinland (Shenzhen) Co., Ltd.

Master TRF Dated 2023-09

List of Attachments (including a total number of pages in each attachment):

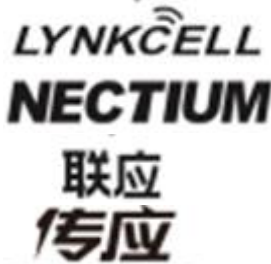
- Attachment 1: Chemical report 168472301a 001 (17 pages).
- Attachment 2: Photo documentation (1 page).

Test item particulars:

Information about the product needed to establish a correct test program, such as product mobility, type of power connections and similar. (Test item particulars are selected by the TRF Originator base on the requirements in the standard)

Test item description.....: Coin Manganese Dioxide Lithium Battery

Battery Category: Portable battery

Trade mark.....: 

Manufacturer.....: Same as client in cover page

Factory: Fujian Nanping Nanfu New Energy Co., Ltd.
109# Industry Road, Yanpin District, Nanping City, Fujian, P.R. China

Model/Type reference: CR1216, CR1220, CR1225, CR1616, CR1632, CR2016, CR2025, CR2032, CR2412, CR2430, CR2450, CR2477, CR3032

Portable battery of general use: ☒ Yes
☐ No

Stationary battery energy storage system: ☐ Yes
☒ No

General remarks:

This report shall not be reproduced, except in full, without the written approval of the testing laboratory.

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

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

General product information and other remarks:

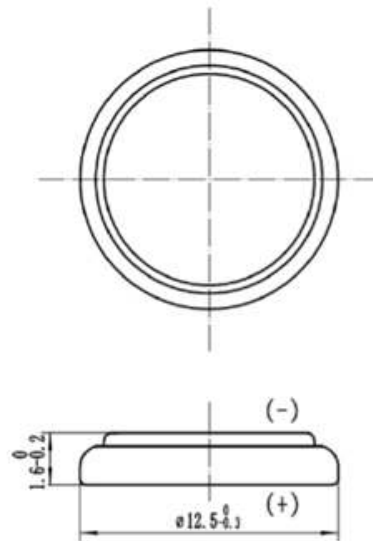
The batteries **CR1216, CR1220, CR1225, CR1616, CR1632, CR2016, CR2025, CR2032, CR2412, CR2430, CR2450, CR2477, CR3032** are constructed of the positive electrode, negative electrode, separator, electrolyte, steel can, current collector and assembled sealing cap. The positive and negative electrodes are housed in the can in the state being separated by the separator, and the assembled sealing cap is fit to the can.

The manufacturer declares that all the models are identical (same material, same manufacturing process, same construction), except the dimension. CR2450 is chosen as representative to be tested in this report.

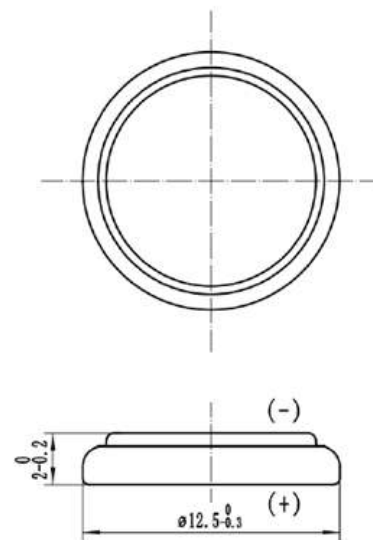
The main features of the battery are shown as below:

Model	Nominal capacity	Nominal voltage	Discharge cut-off voltage
CR1216	25mAh	3.0V	2.0V
CR1220	40mAh	3.0V	2.0V
CR1225	50mAh	3.0V	2.0V
CR1616	50mAh	3.0V	2.0V
CR1632	140mAh	3.0V	2.0V
CR2016	90mAh	3.0V	2.0V
CR2025	165mAh	3.0V	2.0V
CR2032	240mAh	3.0V	2.0V
CR2412	100mAh	3.0V	2.0V
CR2430	300mAh	3.0V	2.0V
CR2450	600mAh	3.0V	2.0V
CR2477	1000mAh	3.0V	2.0V
CR3032	500mAh	3.0V	2.0V

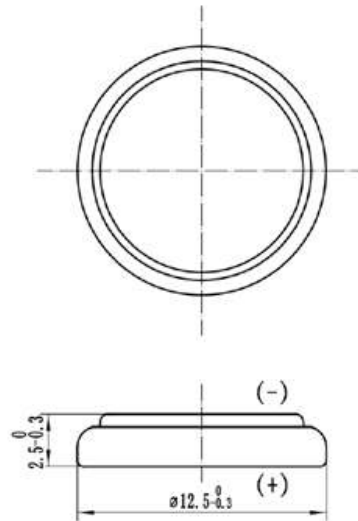
Construction:



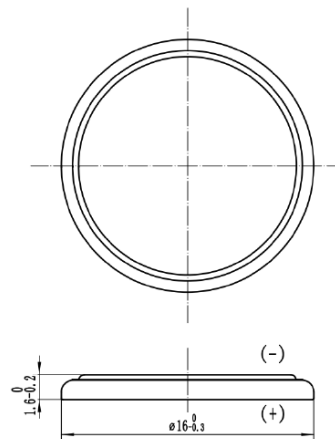
CR1216 (unit: mm)



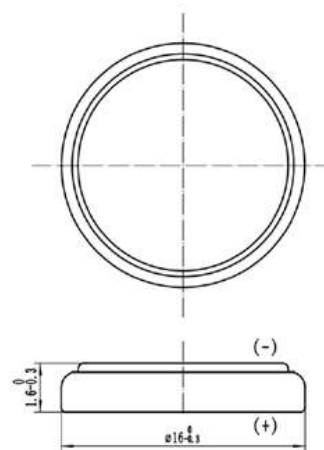
CR1220 (unit: mm)



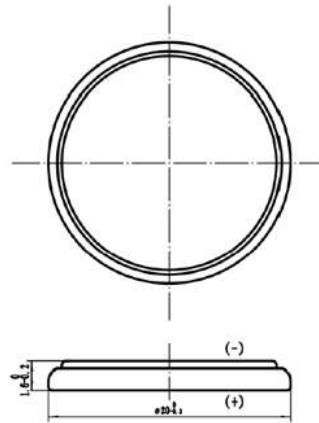
CR1225 (unit: mm)



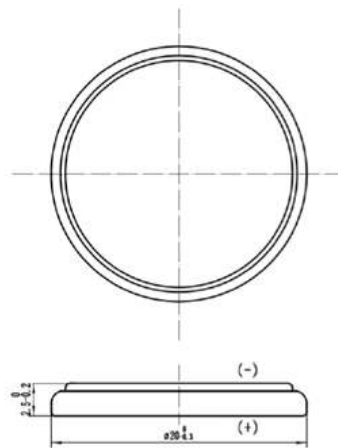
CR1616 (unit: mm)



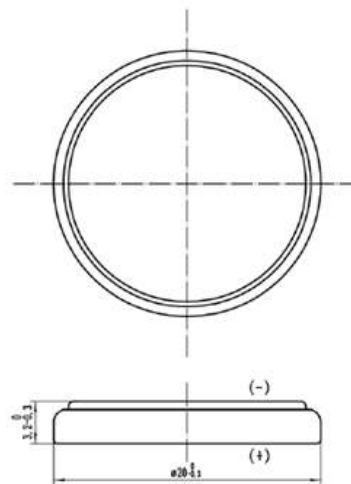
CR1632 (unit: mm)



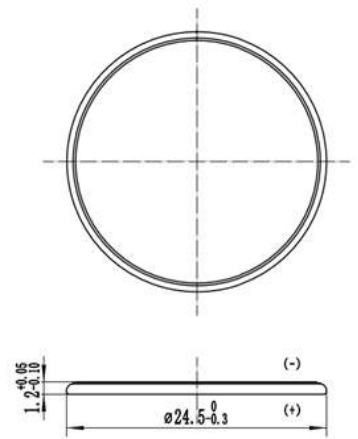
CR2016 (unit: mm)



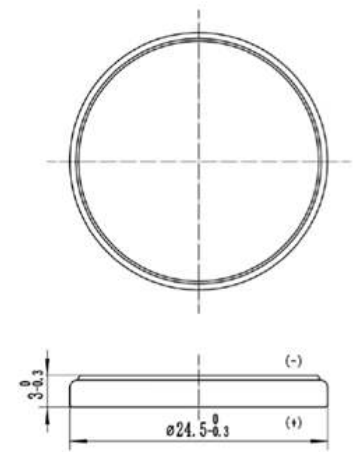
CR2025 (unit: mm)



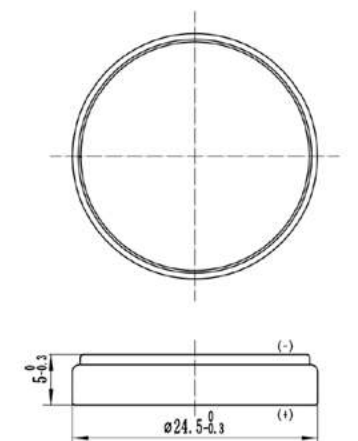
CR2032 (unit: mm)



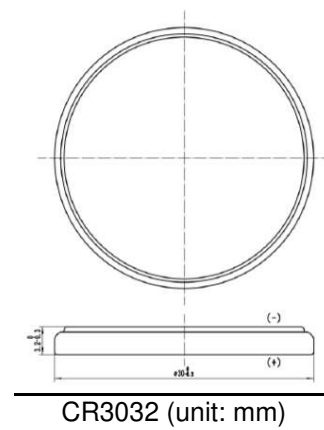
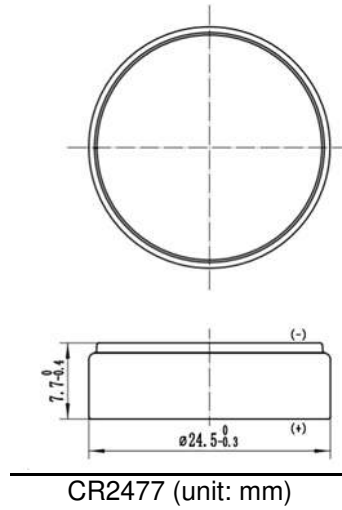
CR2412 (unit: mm)



CR2430 (unit: mm)



CR2450 (unit: mm)



Circuit diagram:

N/A, cell only

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



CR1216 cell marking

Product: Lithium Primary Battery	Spec.: CR1216-25mAh
Quantity: 8000pcs	Code: 100104190003
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR1216



CR1220 cell marking

Product: Lithium Primary Battery	Spec.: CR1220-40mAh-X
Qutity: 4800 pcs	Code: 100104030012
Manufacture date: 2024.XX.XX	
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR1220



CR1225 cell marking

Product: Lithium Primary Battery	Spec.: CR1225-UNZEZ-G(1.0000)
Qutity: 10000 pcs	Code: 100104030029
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR1225



CR1616 cell marking

Product: Lithium Primary Battery	Spec.: CR1616-50mAh-x
Qty: 6500 pcs	Code: 100104050009
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR1616



CR1632 cell marking

Product: Lithium Primary Battery	Spec.: CR1632-140mAh-003X
Qty: 4000 pcs	Code: 100104070031
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR1632



CR2016 cell marking

Product: Lithium Primary Battery	Spec.: CR2016-90mAh-N
Qutity: 6000 pcs	Code: 100104090034
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR2016



CR2025 cell marking

Product: Lithium Primary Battery	Spec.: CR2025-NECTIUM
Qutlity: 4000 pcs	Code: 100104100037
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujlan Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR2025



CR2032 cell marking

Product: Lithium Primary Battery	Spec.: CR2032-pulse-NECTIUM(0.32)
Qutlity: 3200 pcs	Code: 100104110100
Gross weight : 11.4Kg	Net weight: 9.6Kg
Size: 0.315×0.315×0.190=0.019m³	 
Manufacture date: 2024.XX.XX	
Manufacturer: Fujlan Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujlan Province	
Importer:XXX Address: XXX	

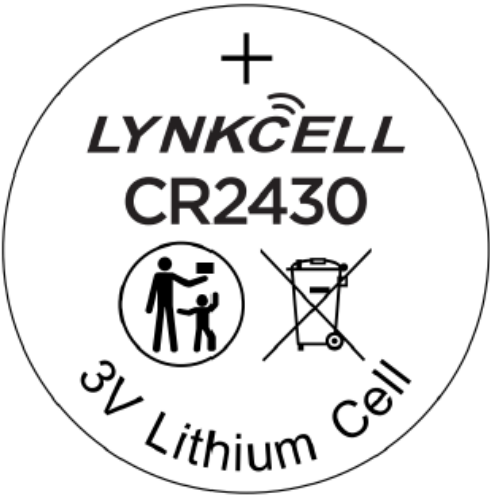
Immediate package label for CR2032



CR2412 cell marking

Product: Lithium Primary Battery	Spec.: CR2412-UNAZZ-022(0.2400)
Qutity: 2400pcs	Code: 100104270001
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR2412



CR2430 cell marking

Product: Lithium Primary Battery	Spec.: CR2430-UNZGE-X(0.5600)
Qutity: 5600 pcs	Code: 100104120029
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,Ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujlan Province	
Importer:XXX Address: XXX	

Immediate package label for CR2430



CR2450 cell marking

Product: Lithium Primary Battery	Spec.: CR2450-pulse-UNFZZ-003(0.1600)
Qutity: 1600 pcs	Code: 100104130087
Gross weight : 11.5Kg	Net weight: 10.4Kg
Size: 0.313×0.313×0.156=0.015m³	
Manufacture date: 2024.XX.XX	
Manufacturer: Fujlan Nanping Nanfu New Energy co.,Ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR2450



CR2477 cell marking

Product: Lithium Primary Battery	Spec.: CR2477-UNAZZZ
Qutlity, 1600 pcs	Code, 100104160001
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR2477



CR3032 cell marking

Product: Lithium Primary Battery	Spec.: CR3032-500MAH
Qutity: 1600 pcs	Code: 100104200003
Manufacture date: 2024.XX.XX	 
Manufacturer: Fujian Nanping Nanfu New Energy co.,ltd. Address: No. 109, Industrial Road, Yanping District, Nanping City, Fujian Province	
Importer:XXX Address: XXX	

Immediate package label for CR3032

- Remark:
- 1. The height of the CE marking at least 5mm.
 - 2. Name and address of the manufacturer and importer are shown on the immediate package.
 - 3. "2024.XX.XX" marked on the immediate package represents the date of manufacture.
 - 4. Cell has four optional trademark markings, see page 4 for details

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
Chapter I	General provisions		P
Chapter II	Sustainability and safety requirements		P
Article 6	Restrictions on substances		P
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
Article 7	Carbon footprint of electric vehicle batteries, rechargeable industrial batteries and LMT batteries	Not applicable to portable batteries.	N/A
Article 8	Recycled content in industrial batteries, electric vehicle batteries, LMT batteries and SLI batteries	Not applicable to portable batteries.	N/A
Article 9	Performance and durability requirements for portable batteries of general use		P

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
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.	Not request by client. Not mandatory until the specified date.	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
	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 non-rechargeable 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 eco-design requirements.		N/A
Article 10	Performance and durability requirements for rechargeable industrial batteries, LMT batteries and electric vehicle batteries	Not applicable to portable batteries.	N/A
1.	From 18 August 2024, rechargeable industrial batteries with a capacity greater than 2 kWh, LMT batteries and electric vehicle batteries shall be accompanied by a document containing values for the electrochemical performance and durability parameters set out in Part A of Annex IV.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
	For batteries referred to in the first subparagraph, the technical documentation referred to in Annex VIII shall contain an explanation of the technical specifications, standards and conditions used to measure, calculate or estimate the values for the electrochemical performance and durability parameters. That explanation shall include, at least, the elements set out in Part B of Annex IV.		N/A
2.	From either 18 August 2027 or 18 months after the date of entry into force of the delegated act referred to in the first subparagraph of paragraph 5, whichever is the latest, rechargeable industrial batteries with a capacity greater than 2 kWh, except those with exclusively external storage, shall meet the minimum values laid down in the delegated act adopted pursuant to the first subparagraph of paragraph 5 for the electrochemical performance and durability parameters set out in Part A of Annex IV.		N/A
3.	From either 18 August 2028 or 18 months after the date of entry into force of the delegated act referred to in the second subparagraph of paragraph 5, whichever is the latest, LMT batteries shall meet the minimum values laid down in the delegated act adopted pursuant to the second subparagraph of paragraph 5 for the electrochemical performance and durability parameters set out in Part A of Annex IV.		N/A
4.	Paragraphs 1, 2 and 3 shall not apply to a battery that has been subject to preparation for re-use, preparation for repurposing, repurposing or remanufacturing, where the economic operator placing that battery on the market or putting it into service demonstrates that the battery, before undergoing such operations, has been placed on the market or put into service before the dates on which those obligations become applicable in accordance with those paragraphs.		N/A
5.	By 18 February 2026, the Commission shall adopt a delegated act in accordance with Article 89 to supplement this Regulation by establishing minimum values for the electrochemical performance and durability parameters set out in Part A of Annex IV that rechargeable industrial batteries with a capacity greater than 2 kWh, except those with exclusively external storage, shall attain.		N/A
	By 18 February 2027, the Commission shall adopt a delegated act in accordance with Article 89 to supplement this Regulation by establishing minimum values for the electrochemical performance and durability parameters set out in Part A of Annex IV that LMT batteries shall attain.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
	In preparing the delegated acts referred to in the first and second subparagraph, the Commission shall consider the need to reduce the life cycle environmental impact of rechargeable industrial batteries with a capacity greater than 2 kWh, except of those with exclusively external storage, and of LMT batteries, and ensure that the requirements laid down therein do not have a significant adverse impact on the functionality of those batteries or the appliances, light means of transport or other vehicles into which those batteries are incorporated, their affordability and industry's competitiveness.		N/A
6.	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend the electrochemical performance and durability parameters set out in Annex IV in light of market developments and technical and scientific progress, including, in particular, related to technical specifications of the informal UNECE Working Group on Electric Vehicles and the Environment.		N/A
Article 11	Removability and replaceability of portable batteries and LMT batteries	To be evaluated with end product.	N/A
Article 12	Safety of stationary battery energy storage systems	Not applicable to portable batteries.	N/A
1.	Stationary battery energy storage systems placed on the market or put into service shall be safe during their normal operation and use.		N/A
2.	By 18 August 2024, the technical documentation referred to in Annex VIII shall:		N/A
	(a) demonstrate that the stationary battery energy storage systems are compliant with paragraph 1 and include evidence that they have been successfully tested for the safety parameters set out in Annex V, for which state-of-the-art testing methodologies shall be used. The safety parameters shall only apply in so far as a corresponding hazard exists for the stationary battery energy storage system in question when it is used under the conditions envisaged by the manufacturer;		N/A
	(b) include an assessment of possible safety hazards of the stationary battery energy storage system that are not addressed in Annex V;		N/A
	(c) include evidence that the hazards referred to in point (b) have been successfully mitigated and tested; state-of-the-art testing methodologies shall be used for such testing;		N/A
	(d) include mitigation instructions in case the identified hazards could occur, for example a fire or explosion.		N/A
	The technical documentation shall be reviewed if a battery is prepared for re-use, prepared for repurposing, remanufactured or repurposed.		N/A
3.	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend the safety parameters set out in Annex V in view of technical and scientific progress.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
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.	Not requested by client for this report, not mandatory until the specified date.	N/A
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.		P
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, non-rechargeable portable batteries shall bear a label containing information on their minimum average duration when used in specific applications and a label indicating 'non-rechargeable'.		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, on battery and packaging.	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.		P
	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.		N/A
	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.		P
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:	Not requested by client for this report, not mandatory until the specified date.	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 EU			
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.		N/A
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 re-use, 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
Article 14	Information on the state of health and expected lifetime of batteries	Not applicable to portable batteries.	N/A
1.	From 18 August 2024, up-to-date data for the parameters for determining the state of health and expected lifetime of batteries as set out in Annex VII shall be contained in the battery management system of stationary battery energy storage systems, LMT batteries and electric vehicle batteries.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
2.	Read-only access to the data for the parameters set out in Annex VII through the battery management system referred to in paragraph 1 shall be provided, respecting the intellectual property rights of the battery manufacturer, on a non-discriminatory basis to the natural or legal person who has legally purchased the battery, including independent operators or waste management operators, or any third party acting on their behalf at any time, for the purpose of: (a) making the battery available to independent aggregators or market participants through energy storage; (b) evaluating the residual value or remaining lifetime of the battery and capability for further use, based on the estimation of the state of health of the battery; (c) facilitating the preparation for re-use, preparation for repurposing, repurposing or remanufacturing of the battery.		N/A
3.	The battery management system shall include a software reset function, in case economic operators carrying out preparation for re-use, preparation for repurposing, repurposing or remanufacturing need to upload different battery management system software. If the software reset function is used, the original battery manufacturer shall not be held liable for any breach of the safety or functionality of the battery that could be attributed to battery management system software uploaded after that battery was placed on the market.		N/A
4.	The Commission is empowered to adopt a delegated act in accordance with Article 89 to amend the parameters for determining the state of health and expected lifetime of batteries set out in Annex VII in view of market developments and technical and scientific progress and to ensure synergies with parameters set in UN Global Technical Regulation No 22 on in-vehicle battery durability for electrified vehicles, with due regard to the intellectual property rights of the battery manufacturer.		N/A
5.	The provisions of this Article shall apply in addition to those laid down in Union law on type approval of vehicles.		N/A
CHAPTER IV	Conformity of batteries		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 EU			
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
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 applicable to portable batteries	N/A
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		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
CHAPTER VII	Obligations of economic operators as regards battery due diligence policies	Not mandatory until the specified date.	N/A
Article 47	Scope of this Chapter		N/A
Article 48	Battery due diligence policies		N/A
1.	From 18 August 2025, economic operators that place batteries on the market or put them into service shall fulfil the due diligence obligations laid down in paragraphs 2 and 3 of this Article, and in Articles 49, 50 and 52 and shall, to that end, set up and implement battery due diligence policies.		N/A
2.	Economic operators referred to in paragraph 1 of this Article shall have their battery due diligence policies verified by a notified body in accordance with Article 51 ('third-party verification') and periodically audited by that notified body to make sure that the battery due diligence policies are maintained and applied in accordance with Articles 49, 50 and 52. The notified body shall provide the audited economic operator with an audit report.		N/A
3.	Economic operators referred to in paragraph 1 of this Article shall keep documentation demonstrating their fulfilment of the obligations laid down in Articles 49, 50 and 52, including the verification report and approval decision referred to in Article 51 and the audit reports referred to in paragraph 2 of this Article, for 10 years after the last battery manufactured under the relevant battery due diligence policy has been placed on the market.		N/A
4.	Without prejudice to the individual responsibility of economic operators for their battery due diligence policies, economic operators referred to in paragraph 1 of this Article may, for the purposes of compliance with the requirements laid down in Articles 48, 49, 50 and 52, collaborate with other actors, including through due diligence schemes recognised under this Regulation.		N/A
5.	By 18 February 2025, the Commission shall publish guidelines as regards the application of the due diligence requirements laid down in Articles 49 and 50, with regard to the risks referred to in point 2 of Annex X, and in line, in particular, with the international instruments referred to in points 3 and 4 of Annex X.		N/A
6.	Member States may, in order to provide information and support to economic operators in fulfilling the due diligence obligations under this Regulation, set up and operate, individually or jointly, dedicated websites, platforms or portals.		N/A
7.	The Commission may complement the Member State support measures referred to in paragraph 6, by building on existing Union action to support due diligence in the Union and in third countries, and may devise new measures to help economic operators fulfil their obligations under this Regulation.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
8.	The Commission shall regularly assess the need to update the list of raw materials and risk categories set out in Annex X. The Commission is empowered to adopt delegated acts in accordance with Article 89 to: (a) amend the list of raw materials in point 1 of Annex X and of risk categories in point 2 of Annex X, in view of scientific and technological progress in battery manufacturing and chemistries and amendments to Regulation (EU) 2017/821; (b) amend the list of international instruments in point 3 of Annex X, in accordance with developments within the relevant international fora concerning standards related to due diligence policies and to protection of the environment and of social rights; (c) amend the obligations on the economic operators referred to in paragraph 1 of this Article which are laid down in Articles 49 and 50 in view of amendments to Regulation (EU) 2017/821, and amend the list of internationally recognised due diligence instruments set out in point 4 of Annex X.		N/A
Article 49	Economic operator's management system		N/A
1.	Each economic operator referred to in Article 48(1) shall:		N/A
	(a) adopt, and clearly communicate to suppliers and the public, a company battery due diligence policy, concerning raw materials listed in point 1 of Annex X, and associated social and environmental risk categories listed in point 2 of Annex X;		N/A
	(b) incorporate in its battery due diligence policy standards that are consistent with the standards set out in the internationally recognised due diligence instruments listed in point 4 of Annex X;		N/A
	(c) structure its internal management system to support its battery due diligence policy by assigning responsibility to its top management level to oversee its battery due diligence policy as well as maintain records of that system for a minimum of 10 years;		N/A
	(d) establish and operate a system of controls and transparency regarding the supply chain, including a chain of custody or traceability system, identifying upstream actors in the supply chain;		N/A
	(e) incorporate its battery due diligence policy, including risk management measures, into contracts and agreements with suppliers; and		N/A
	(f) establish a grievance mechanism, including an early-warning risk-awareness system and a remediation mechanism, or provide for such mechanisms through collaborative agreements with other economic operators or organisations or by facilitating recourse to an external expert or body, such as an ombudsman; such mechanisms shall be based on the UN Guiding Principles on Business and Human Rights.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
2.	The system referred to in paragraph 1, point (d), shall be supported by documentation that provides at least the following information:		N/A
	(a) a description of the raw material, including its trade name and type;		N/A
	(b) the name and address of the supplier that supplied the raw material present in the batteries to the economic operator that places the batteries containing the raw material in question on the market;		N/A
	(c) the country of origin of the raw material and the market transactions from the raw material's extraction to the immediate supplier to the economic operator that places the battery on the market;		N/A
	(d) the quantities of the raw material present in the battery placed on the market, expressed in percentage or weight;		N/A
	(e) third-party verification reports issued by a notified body and concerning the suppliers as referred to in Article 50(3);		N/A
	(f) if the reports referred to in point (e) are not available and where the raw material originates from a conflict-affected and high-risk area, additional information in accordance with the specific recommendations for upstream economic operators, as set out in the OECD Due diligence guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas, where relevant, such as the mine of origin, locations where the raw material is consolidated, traded and processed, and taxes, fees and royalties are paid.		N/A
	Third party verification reports referred to in point (e) of the first subparagraph shall be made available by suppliers as referred to in Article 50(3) to the downstream operators of the supply chain.		N/A
Article 50	Risk management obligations		N/A
1.	The economic operator referred to in Article 48(1) shall:		N/A
	(a) identify and assess the risk of adverse impacts in its supply chain, associated with the risk categories listed in point 2 of Annex X as part of its management plan, including on the basis of the information provided pursuant to Article 49 and any other relevant information that is either publicly available or provided by stakeholders, by reference to its battery due diligence policy;		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
	(b) design and implement a strategy to respond to the identified risks to prevent, mitigate and otherwise address adverse impacts by: (i) reporting findings of its risk assessment to its top management level assigned in accordance with Article 49(1), point (c); (ii) adopting risk management measures that are consistent with the internationally recognised due diligence instruments listed in point 4 of Annex X, considering its ability to influence, and where necessary take steps to exert pressure on, suppliers, including their subsidiaries and subcontractors, who can most effectively prevent or mitigate the identified risk; (iii) designing and implementing a risk management plan, monitoring and tracking performance of risk mitigation efforts, reporting back to its top management level assigned in accordance with Article 49(1), point (c), and considering suspending or discontinuing engagement with a supplier or its subsidiary or subcontractor after failed attempts at mitigation, based on relevant contracts and agreements referred to in Article 49(1), point (e); (iv) undertaking additional fact and risk assessments for risks requiring mitigation, or after a change of circumstances.		N/A
2.	If the economic operator referred to in Article 48(1) pursues risk mitigation efforts while continuing trade or temporarily suspending trade, it shall consult with suppliers and with the stakeholders concerned, including local and national government authorities, international or civil society organisations and affected third parties such as local communities, before establishing a strategy for measurable risk mitigation in the risk management plan referred to in paragraph 1, point (b)(iii), of this Article.		N/A
3.	The economic operator referred to in Article 48(1) shall identify and assess the probability of adverse impacts in the risk categories listed in point 2 of Annex X, in its supply chain. That economic operator shall identify and assess the risks in its supply chain as part of its own risk management systems. The economic operator shall carry out third party verifications of its own due diligence chains via a notified body in accordance with Article 51. The economic operator may use third-party verification reports issued pursuant to Article 51(2) by such a notified body concerning battery due diligence policies implemented by suppliers in that chain in accordance with this Chapter. The economic operator may also use those third-party verification reports to assess, as appropriate, the due diligence practices of those suppliers.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
4.	The economic operator referred to in Article 48(1) shall report the findings of the risk assessment referred to in paragraph 3 of this Article to its top management level to which responsibility has been assigned in accordance with Article 49(1), point (c), and shall implement the strategy referred to in paragraph 1, point (b), of this Article.		N/A
Article 51	Third-party verification of battery due diligence policies		N/A
Article 52	Disclosure of information on battery due diligence policies		N/A
1.	The economic operator referred to in Article 48(1) shall make available upon request to Member States' market surveillance authorities or national authorities the verification report and approval decision issued in accordance with Article 51, the audit reports referred to in Article 48(2) and available evidence of compliance with a due diligence scheme recognised by the Commission in accordance with Article 53.		N/A
2.	The economic operator referred to in Article 48(1) shall make available to its immediate downstream purchasers all relevant information gained and maintained pursuant to its battery due diligence policy, with due regard for business confidentiality and other competitive concerns.		N/A
3.	The economic operator referred to in Article 48(1) shall on an annual basis review and make publicly available, including on the internet, a report on its battery due diligence policy. That report shall contain, in a manner that is easily comprehensible for end-users and clearly identifies the batteries concerned, the data and information on steps taken by that economic operator to comply with the requirements laid down in Articles 49 and 50, including findings of significant adverse impacts in the risk categories listed in point 2 of Annex X, and how they have been addressed, as well as a summary report of the third-party verifications carried out in accordance with Article 51, including the name of the notified body, with due regard for business confidentiality and other competitive concerns. That report shall also cover, where relevant, access to information, public participation in decision-making and access to justice in environmental matters in relation to the sourcing, processing and trading of the raw materials present in batteries.		N/A
4.	Where the economic operator referred to in Article 48(1) can demonstrate that the raw materials listed in point 1 of Annex X, that are present in the battery are derived from recycled sources, it shall publicly disclose its conclusions in reasonable detail, with due regard for business confidentiality and other competitive concerns.		N/A
Article 53	Recognition of due diligence schemes		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
CHAPTER VIII	Management of waste batteries		N/A
CHAPTER IX	Digital battery passport	Not applicable to portable batteries	N/A
Article 77	Battery passport		N/A
1.	From 18 February 2027 each LMT battery, each industrial battery with a capacity greater than 2 kWh and each electric vehicle battery placed on the market or put into service shall have an electronic record ('battery passport').		N/A
2.	The battery passport shall contain information relating to the battery model and information specific to the individual battery, including resulting from the use of that battery, as set out in Annex XIII.1.		N/A
	The information in the battery passport shall comprise: (a) information accessible to the general public in accordance with point 1 of Annex XIII; (b) information accessible only to notified bodies, market surveillance authorities and the Commission in accordance with points 2 and 3 of Annex XIII; and (c) information accessible only to any natural or legal person with a legitimate interest in accessing and processing that information for the purposes referred to in points (a) and (b) of the third subparagraph in accordance with points 2 and 4 of Annex XIII.		N/A
	The purposes for accessing and processing the information as referred to in point (c) of the second subparagraph, shall: (a) concern dismantling of the battery, including safety measures to be taken during the dismantling, and the detailed composition of the battery model and be essential to allow repairers, remanufacturers, second-life operators and recyclers to conduct their respective economic activities in accordance with this Regulation; (b) in the case of individual batteries, be essential to the purchaser of the battery or parties acting on the purchaser's behalf, for the purpose of making the individual battery available to independent energy aggregators or energy market participants.		N/A
	The information referred to in the second subparagraph shall be included in the battery passport to the extent applicable to the category or sub-category of battery concerned.		N/A
	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend Annex XIII as regards the information to be included in the battery passport in view of technical and scientific progress.		N/A
3.	The battery passport shall be accessible through the QR code referred to in Article 13(6) which links to a unique identifier that the economic operator placing the battery on the market shall attribute to it.		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
	The QR code and the unique identifier shall comply with the ISO/IEC standards 15459-1:2014, 15459-2:2015, 15459-3:2014, 15459-4:2014, 15459-5:2014 and 15459-6:2014 or their equivalent.		N/A
	The Commission is empowered to adopt delegated acts in accordance with Article 89 to amend the second subparagraph of this paragraph in light of technical and scientific progress by replacing the standards referred to in that subparagraph or adding other European or international standards with which the QR code and the unique identifier shall comply.		N/A
4.	The economic operator placing the battery on the market shall ensure that the information in the battery passport is accurate, complete and up to date. It may give written authorisation to any other operator to act on its behalf.		N/A
5.	All information included in the battery passport shall be based on open standards and be in an interoperable format, transferable through an open interoperable data exchange network without vendor lock-in, machine-readable, structured and searchable, in accordance with the essential requirements laid down in Article 78.		N/A
6.	The access to information included in the battery passport shall be regulated in accordance with the essential requirements laid down in Article 78.		N/A
7.	For a battery that has been subject to preparation for re-use, preparation for repurposing, repurposing or remanufacturing, the responsibility for the fulfilment of the obligations under paragraph 4 of this Article shall be transferred to the economic operator that has placed that battery on the market or has put it into service. Such battery shall have a new battery passport linked to the battery passport or passports of the original battery or batteries.		N/A
	Where the status of a battery changes to that of a waste battery, the responsibility for the fulfilment of the obligations under paragraph 4 of this Article shall be transferred either to the producer or, where appointed in accordance with Article 57(1), the producer responsibility organisation, or the waste management operator selected in accordance with Article 57(8).		N/A
8.	A battery passport shall cease to exist after the battery has been recycled.		N/A
9.	By 18 August 2026, the Commission shall adopt implementing acts specifying which persons are to be considered persons with a legitimate interest as referred to in points 2 and 4 respectively of Annex XIII for the purposes of paragraph 2, point (c), of this Article and to which information listed in those points they shall have access, and to what extent they can download, share, publish and re-use that information. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 90(3).		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
	The criteria for specifying the persons referred to in paragraph 2, point (c), and for determining the extent to which they can download, share, publish and re-use the information referred to in points 2 and 4 of Annex XIII shall be the following: (a) the necessity of having such information in order to evaluate the status and residual value of the battery and its capability for further use; (b) the necessity of having such information for the purpose of preparation for re-use, preparation for repurposing, repurposing, remanufacturing or recycling of the battery, or for choosing between those operations; (c) the need to ensure that the accessing and processing of information in the battery passport that is commercially sensitive is limited to the minimum necessary in accordance with applicable Union law.		N/A
Article 78	Technical design and operation of the battery passport		N/A
	The technical design and operation of the battery passport shall comply with the following essential requirements:		N/A
	(a) the battery passport shall be fully interoperable with other digital product passports required by Union law concerning eco-design, in relation to the technical, semantic and organisational aspects of end-to-end communication and data transfer;		N/A
	(b) consumers, economic operators and other relevant actors shall have access to the battery passport free of charge and based on their respective access rights set out in Annex XIII and the implementing act adopted pursuant to Article 77(9);		N/A
	(c) the data included in the battery passport shall be stored by the economic operator responsible for the fulfilment of the obligations under Article 77(4) or (7), or by operators authorised to act on their behalf;		N/A
	(d) if the data included in the battery passport are stored or otherwise processed by operators authorised to act on behalf of the economic operator responsible for the fulfilment of the obligations under Article 77(4) or (7), those operators shall not be allowed to sell, re-use or process such data, in whole or in part, beyond what is necessary for the provision of the relevant storing or processing services;		N/A
	(e) the battery passport shall remain available after the economic operator responsible for the fulfilment of the obligations under Article 77(4) or (7) ceases to exist or ceases its activity in the Union;		N/A
	(f) the rights to access, introduce, modify or update information in the battery passport shall be restricted based on the access rights specified in Annex XIII and the implementing act adopted pursuant to Article 77(9);		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
	(g) data authentication, reliability and integrity shall be ensured;		N/A
	(h) the battery passport shall be such that a high level of security and privacy is ensured and fraud is avoided.		N/A
CHAPTER X	Union market surveillance and Union safeguard procedures		N/A
CHAPTER XI	Green public procurement and procedure for amending restrictions on substances		N/A
CHAPTER XII	Delegated powers and committee procedure		N/A
CHAPTER XIII	Amendments		N/A
CHAPTER XIV	Final provisions		N/A
ANNEX I	RESTRICTION ON SUBSTANCES		P
ANNEX II	CARBON FOOTPRINT		N/A
ANNEX III	ELECTROCHEMICAL PERFORMANCE AND DURABILITY PARAMETERS FOR PORTABLE BATTERIES OF GENERAL USE		N/A
ANNEX IV	ELECTROCHEMICAL PERFORMANCE AND DURABILITY REQUIREMENTS FOR LMT BATTERIES, INDUSTRIAL BATTERIES WITH A CAPACITY GREATER THAN 2 KWH AND ELECTRIC VEHICLE BATTERIES		N/A
ANNEX V	SAFETY PARAMETERS		N/A
ANNEX VI	LABELLING, MARKING AND INFORMATION REQUIREMENTS	See Article 13, for separate collection symbol and capacity marking only. Manufacturer declares that manufacturer and importer information to be provided in document accompanying the battery.	P
ANNEX VII	PARAMETERS FOR DETERMINING THE STATE OF HEALTH AND EXPECTED LIFETIME OF BATTERIES		N/A
ANNEX VIII	CONFORMITY ASSESSMENT PROCEDURES		N/A
ANNEX IX	EU DECLARATION OF CONFORMITY No* ... * (identification number of the declaration)	EU DECLARATION OF CONFORMITY content provided.	P
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

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX XII	STORAGE AND TREATMENT, INCLUDING RECYCLING, REQUIREMENTS		N/A
ANNEX XIII	INFORMATION TO BE INCLUDED IN THE BATTERY PASSPORT		N/A
ANNEX XIV	MINIMUM REQUIREMENTS FOR SHIPMENTS OF USED BATTERIES		N/A
ANNEX XV	CORRELATION TABLE		N/A

2023/1542 EU			
Clause	Requirement + Test	Result - Remark	Verdict

TABLE: Critical components information					
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity
Cell	Fujian Nanping Nanfu New Energy Co., Ltd.	CR1216, CR1220, CR1225, CR1616, CR1632, CR2016, CR2025, CR2032, CR2412, CR2430, CR2450, CR2477, CR3032	CR1216:3V, 25mA, CR1220:3V, 40mA, CR1225:3V, 50mA, CR1616: 3V, 50mA, CR1632:3V, 140mA, CR2016: 3V, 90mA, CR2025: 3V, 165mA, CR2032: 3V, 240mA, CR2412: 3V, 100mA, CR2430: 3V, 300mA, CR2450: 3V, 600mA, CR2477: 3V, 1000mA, CR3032: 3V, 500mA,	--	--
-Electrolyte	Zhuhai Smoothway Electronic Materials Co., Ltd.	T2062	1,2-dimethoxyethane, Organic electrolyte,	--	--
-Separator	Shenzhen Xinheyuan Electronic Technology Co., Ltd.	Y16T	Polypaopylene, Thickness: 0.25mm, Gramage 225g/m ² Shutdown temperature: 120°C	--	--
-Positive electrode	Kunming Tianmou Technology Co., Ltd.	GK-A	Manganese dioxide	--	--
-Negative electrode	Prince International Corporation	--	Lithium metal, Purity: ≥99.9%	--	--

2023/1542 EU					
Clause	Requirement + Test			Result - Remark	Verdict
-Cell case	Ningbo Qiyi Metal Co., Ltd.	SUS 430	Stainless steel	--	--

--End of Main Report--

Report No.: 168472301a 001 Page 1 of 16

Client: LIANYING TECHNOLOGY (SHENZHEN) CO., LTD.

Contact Information: C1, 24th Floor, Building 12, Le hui Center, Jihua Road, BantianStreet,
Longgang District, Shenzhen, Guangdong, P.R. China

Test item(s): 3 materials

**Identification/
Model No(s):** Coin Manganese Dioxide Lithium Battery
CR1216, CR1220, CR1225, CR1616, CR1632, CR2016, CR2025,
CR2032, CR2412, CR2430, CR2450, CR2477, CR3032

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2024-02-29

Testing Period: 2024-03-06 to 2024-03-20

Place of testing: Chemical laboratory Shenzhen

Test Specification:

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

For and on behalf of
TÜV Rheinland (Shenzhen) Co., Ltd.



2024-04-07

Grid Guo / Engineer

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 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 Selected Perfluorinated carboxylic acids (C9-C14 PFCAs) and related substances accordance to: REACH regulation (EC) No. 1907/2006 and its amendment regulations on Annex XVII entry 68	PASS
4 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
5 Octabromodiphenylether (OctaBDE) content accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII entry 45	PASS
6 REACH regulation (EC) No. 1907/2006 and its amendment regulations on Annex XVII entry 51: Phthalates	PASS
7 Dimethyl fumarate Content - According to REACH regulation (EC) No. 1907/2006 Annex XVII Entry 61 and its amendments	PASS
8 REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII entries 62: Phenylmercury compounds	PASS
9 Total Lead Content - REACH Regulation (EC) No. 1907/2006, amendment no. 836/2012 Annex XVII Item 63	PASS

Test Report No.: 168472301a 001

Page 3 of 16

Material List:

Item: Coin Manganese Dioxide Lithium Battery
CR1216, CR1220, CR1225, CR1616, CR1632, CR2016, CR2025, CR2032, CR2412,
CR2430, CR2450, CR2477, CR3032

Material No.	Material	Color	Location
M001	Battery	Silver	Refer to photo
M002	Plastic	Translucent	Refer to photo
M003	Paper	White	Refer to photo

Test Report No.: 168472301a 001

Page 4 of 16

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	M001	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
 n.a.= not applicable
 RL = Reporting Limit
 < = Less than

Remark:

- # According to Annex I of the Regulation (EU) 2023/1542, the Lead restriction shall apply to portable batteries and portable zinc-air button cells from 18 August 2024 and 18 August 2028 respectively.
- * According to Article 13(4) and 13(5) of the Regulation (EU) 2023/1542, all batteries shall be marked with the symbol indicating 'separate collection'; and 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.

Test Report No.: 168472301a 001

Page 5 of 16

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	M002 + M003	Cadmium	mg/kg	10	100	< RL

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

Remark:

* Regulations on Cadmium

		Maximum Permissible Limit				
EU	Legislation	Plastic materials	Paint (wet state)	Paint on the painted articles	Paint (high zinc content)	Metal parts of jewellery and imitation jewellery articles and hair assessories
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

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

Test Report No.: 168472301a 001

Page 6 of 16

3. 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.					M002 + M003
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result
Perfluorononanoic 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-Perfluorodecylidichloromethylsilane (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.: 168472301a 001

Page 7 of 16

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

Remark:

- * Requirements according to Annex XVII of Regulation (EC) No 1907/2006 entry 68 (REACH) for perfluorinated carboxylic acids (C9-C14-PFCA) their salts and C9-C14-PFCA related substances amended by Regulation (EU) 2021/1297.
Shall not be used or placed on the market after 25 February 2023:
 - (a) another substance, as a constituent;
 - (b) in a mixture;
 - (c) in an article,except if the concentration in the substance, the mixture, or the article is below 25 ppb for the sum of C9-C14 PFCA and their salts or 260 ppb for the sum of C9-C14 PFCA-related substances.

Test Report No.: 168472301a 001

Page 8 of 16

4.Organotin compounds content

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

Test No.				T001
Material No.				M002
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.: 168472301a 001

Page 9 of 16

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 organotins were not detected, the result is stated < RL
- ** The assessment for tri-substituted organotins 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), organostannic compounds shall not be used or be placed on the market.

Type of organostannic compounds	Maximum Permissible Limit	Implementation date
Tri-substituted organostannic 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
Diocetyl tin (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.: 168472301a 001

Page 10 of 16

5. Octabromodiphenylether (OctaBDE) content

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

				Test No.	T001
				Material No.:	M002 + M003
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.

Test Report No.: 168472301 001

Page 11 of 16

6. Phthalates content

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

Parameter	CAS No.	Unit	Test No.	T001
			Material No.:	M002
			RL	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	<RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	<RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	<RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	<RL
Sum (DEHP+DBP+BBP+DIBP)	--	%	0.01	<RL
Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51				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)

Test Report No.: 168472301 001

Page 12 of 16

- 6) Electrical and electronic equipment within the scope of Directive 2011/65/EU
- 7) Immediate packaging of medicinal products (Regulation (EC) No 726/2004, Directive 2001/82/EC or Directive 2001/83/EC)

Test Report No.: 168472301a 001

Page 13 of 16

7. 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
T002	M003	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.: 168472301a 001

Page 14 of 16

8. Phenylmercury Compounds

Test Method: Acid digestion, analyzed by ICP-MS

Test No.					T001
Material No.					M002 + M003
Test Parameter	CAS No.	Unit	RL	Formulation Limit	Result
Phenylmercury acetate (by weight of Mercury)	62-38-4	%	0.005	0.01	< RL
Phenylmercury propionate (by weight of Mercury)	103-27-5	%	0.005	0.01	< RL
Phenylmercury 2-ethylhexanoate (by weight of Mercury)	13302-00-6	%	0.005	0.01	< RL
Phenylmercury octanoate (by weight of Mercury)	13864-38-5	%	0.005	0.01	< RL
Phenylmercury neodecanoate (by weight of Mercury)	26545-49-3	%	0.005	0.01	< RL

Abbreviation: RL = Reporting Limit
 < = Less Than
 % = Percentage

Remark:

- * Shall not be manufactured, placed on the market or used as substances or in mixtures if the concentration of mercury in the mixtures is equal to or greater than 0,01 % by weight.
- * Articles or any parts thereof containing one or more of these substances shall not be placed on the market if the concentration of mercury in the articles or any part thereof is equal to or greater than 0,01 % by weight.

Test Report No.: 168472301a 001

Page 15 of 16

9.Total Lead content

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 and CPSC-CH-E1003-09.1 (Microwave method)

Test result:

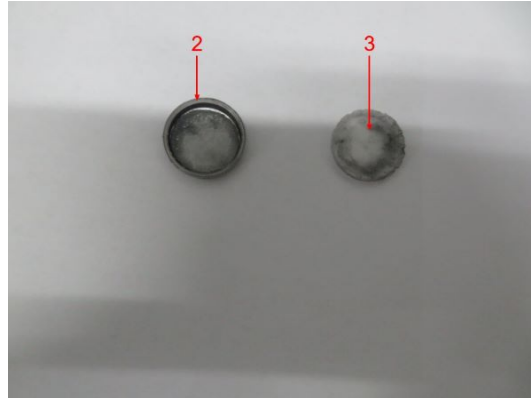
Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M002	Lead Content	%	0.001	0.05	< RL

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

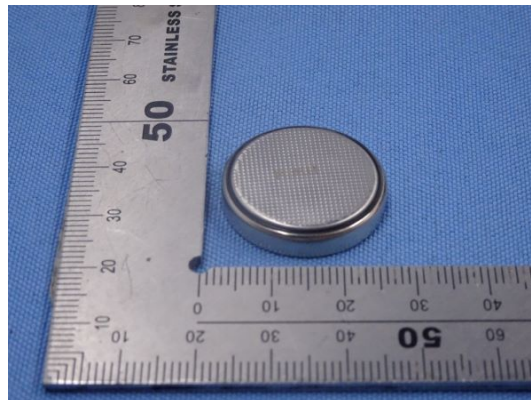
Remark:

*	Country	Legislation	<u>Maximum Permissible Limit</u>
	EU	Paragraph 1-6 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006	For Jewellery, imitation jewellery, hair accessories, bracelets, necklaces , rings, piercing jewellery, wrist watches, wrist-wear, brooches and cufflinks and parts used for jewellery-making 0.05% (by weight of the individual part)
		Paragraph 7-10 of Entry 63 of Annex XVII, REACH Regulation (EC) No. 1907/2006	Articles supplied to the general public during normal or reasonably foreseeable conditions of use, be placed in the mouth by children 0.05% (by weight of the individual part) The limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm ² per hour (equivalent to 0,05 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article.

Sample Photos



Product



Product



Product



- END -

Product: Coin Manganese Dioxide Lithium Battery

Type Designation: CR1216, CR1220, CR1225, CR1616, CR1632, CR2016, CR2025, CR2032, CR2412, CR2430, CR2450, CR2477, CR3032



Figure 1 View 1 of battery (CR2450 as representative, final label see page 11~23 in report)



Figure 2 View 2 of battery (CR2450 as representative, final label see page 11~23 in report)