

26 April 2024

Compliance with EU Battery Regulation 2023/1542

Panasonic Lithium Coin Batteries

The following document details the conformance of the **Panasonic Lithium Coin Batteries** listed below that are sold in devices with the Regulation (EU) 2023/1542.

Products Covered

This document covers the catalog part numbers listed below and all of their various packaged and tabbed versions (i.e. CR-2032L/BD, CR-2032/HCN, etc...).

BR Coin BR1220, BR1225, BR1632, BR2032, BR2325, BR2330, BR3032

BR "A" Coin BR1225A, BR1632A, BR2330A, BR2450A, BR2477A

CR Coin CR1025, CR1216, CR1220, CR1616, CR1620, CR1632, CR2012, CR2016, CR2025, CR2032, CR2330, CR2354, CR2412, CR2430, CR2450, CR2477, CR3032

CR High

Temp Coin CR2032A, CR2032B, CR2050A, CR2050B, CR2450B

ML Coin Cell ML2020

VL Coin Cells VL1220, VL2020, VL2330, VL3032

Conformity Assessment Documents

Attached to this document are the conformity assessments detailing the compliance with the restricted substances; Mercury (Hg), Cadmium (Cd) and Lead (Pb) for the above products.

Labeling – WEEE Label (Crossed-Out Dustbin)



The EU battery regulation requires a crossed-out dustbin recycling mark on some product.

For cylindrical batteries, this symbol must be greater than 1.5% of the surface area. On batteries where the mark will be less than 0.5 cm x 0.5 cm, no marking is required on the battery, but still must be marked on the packaging with a minimum size of 1 cm x 1 cm. This size requirement would exclude all our Panasonic lithium coin cells listed above.

Panasonic ENERGY

The **lithium coin cell** batteries listed above, and their various tab configurations will be marked on the packaging only, no marking will appear on the cell due to the size requirements listed above.

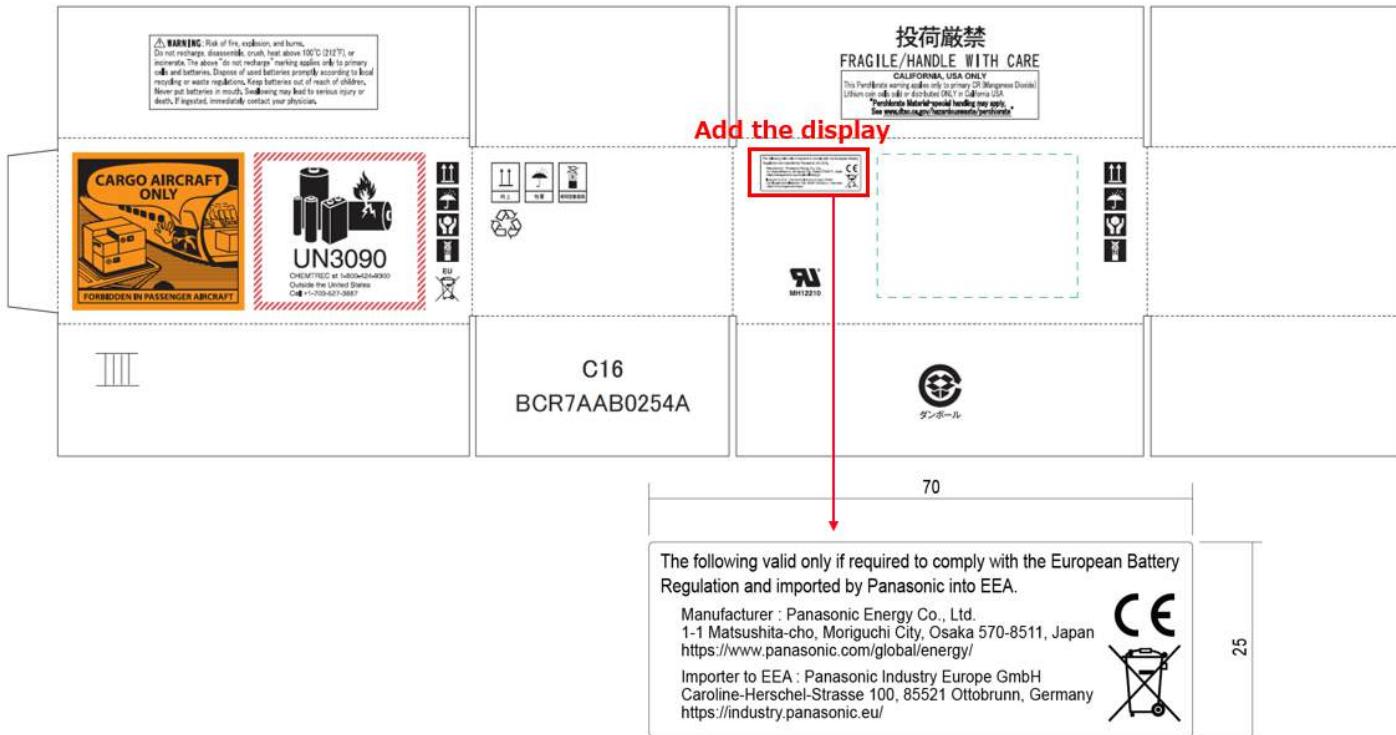
Labeling CE Mark



The coin cell batteries listed in this document are too small to have the CE Mark. Panasonic's interpretation of the EU regulation is that CE Mark should appear on the final product (including packaging and documentation) that includes the battery.

The CE Mark, however, will appear on the bulk packaging starting May 2024 Panasonic factory shipments.

Example of labeling on Industrial Bulk Coin Shipments



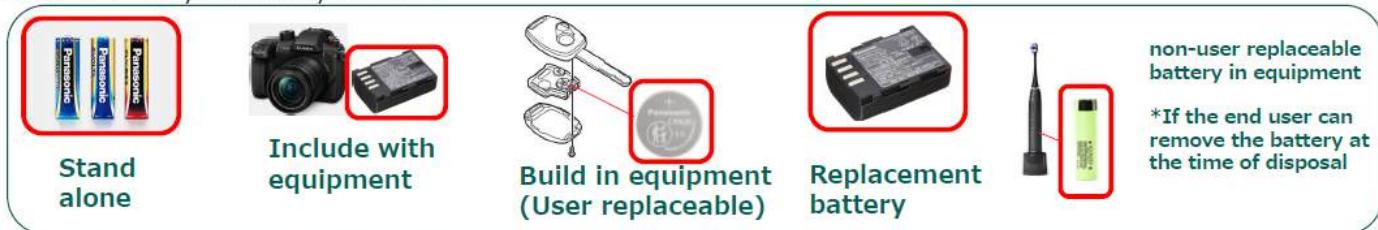
Declaration of Conformity (DoC)

Panasonic's understanding is the OEM of the device which contains the battery, or a battery supplied by the OEM as a replacement part in the European Economic Area (EEA) has the responsibility of preparing the DoC. As a battery supplier stipulated in Article 39, we will provide the information included in this document as backup to our customers who are manufacturers.

Example of products that require CE marking

CE marking is required on battery

- Batteries are ready for use by end user.



CE marking is required on Equipment

- Equipment that is not intended for battery replacement by the end user shall affix the CE marking on the equipment.

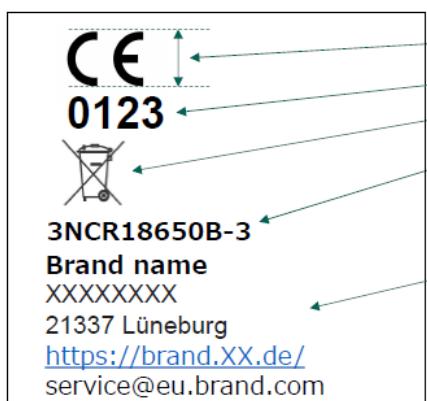
*From February 2027 (Article 96), portable batteries, etc. shall be user replaceable (Article 11).

If the structure of equipment is such that the battery can be replaced, CE marking shall be necessary to the battery.



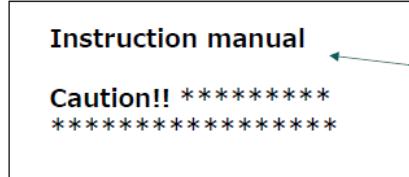
*If the CE marking cannot be displayed, such as small batteries/products, it will be necessary to display it on the packaging or manual. CE marking must be displayed at a minimum height of 5 mm (ANNEX II, Section 3 of Regulation (EC) No 765/2008)

Example of Marking for CE marking (Label + document)



- CE marking Article 19
Height more than 5mm Regulation (EC) No 765/2008 ANNEX II Cl.3
- Number of notified body *only module D1
- Crossed out wheelie bin symbol minimum dimensions for surface area Article13 Cl.4
- Model identification (type name, etc) Article 38 Cl.6
 - Identification of manufacturer Article 38 Cl.7
 - Manufacturer's name, trade name or trademark,
 - their postal address, indicating a single contact point,
 - if available, web and e-mail address. If available
 - Identification of importer Article 41 Cl.3
 - Importer's name, trade name or trademark,
 - their postal address, indicating a single contact point,
 - if available, web and e-mail address. If available

If the above cannot be displayed due to the size or nature of the battery,
 1,2 are indicated on the attached documents and package Article 20 Cl.1
 4, 5-1, 5-2 are indicated on the attached document or package Article 38 Cl.6,7



- Attached document Article38 Cl.1
battery accompanied by clear, understandable and readable
instructions and safety information in a language or languages which
can be easily understood by end-users.

Small battery can not be displayed on the battery. For individual products, please contact the respective business unit. This is the minimum marking required for CE marking and does not cover all marking requirements in the battery regulations.

REGULATION (EU) 2023/1542
Article 6 : Restrictions on substances
Conformity Assessment Report

1. Product Information

Name of product	Poly-carbonmonofluoride Primary Lithium Coin Batteries
Category of battery	<input type="checkbox"/> Starting, lighting and ignition battery (SLI) <input type="checkbox"/> Electric vehicle battery (EV) <input type="checkbox"/> Light means of transport battery (LMT) <input checked="" type="checkbox"/> Industrial battery <input checked="" type="checkbox"/> Portable battery
Model number	BR1220, BR1225, BR1632, BR2032, BR2325 BR2330, BR3032

2. Subjected regulation and directive

The following regulations and directives are subject to Article 6: Substance Restrictions of REGULATION (EU) 2023/1542.

- Annex XVII to Regulation (EC) No 1907/2006
- Article 4(2), point (a), of Directive 2000/53/EC
- Annex I to REGULATION (EU) 2023/1542

3. Compatibility confirmation method

Since harmonized standards are specified in neither Article 6 nor Annex 1 of REGULATION (EU) 2023/1542, we use EN IEC 63000:2018 as a reference standard.

Confirmed by any of the following three methods.

- Supplier declarations: Non-use Warranty Certificates.
- Material declarations by supplier: List of specific substance content and identifying any exemptions.
- Analytical test results: Test data obtained by high-precision analysis (quantitative analysis) of product parts. Test data related to Hg, Cd, Pb, and Cr(VI) are applicable.

4. Conformity Assessment Result

We have confirmed that all parts of these battery products do not contain restricted substances by the applicable regulations.

Target regulation	Restricted substances	Target category	Threshold	Result
Annex XVII to Regulation (EC) No 1907/2006	Annex XVII Restricted substances	All batteries	Restriction conditions are set for each entry number.	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Article 4(2), point (a), of Directive 2000/53/EC	Hg	Batteries subject to ELV Directive	0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cd		0.01% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Pb		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cr (VI)		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
Annex I to REGULATION (EU) 2023/1542	Hg	All batteries	0.0005% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
	Cd	Portable Battery	0.002% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable
	Pb ^{※1}	Portable Battery	0.01% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable

※1 : Regulations for zinc-air button batteries will start from August 2028.

Note : This document provides the conformity assessment results of restrictions on substances. It does not indicate that the covered product is suitable for use in the battery category of the regulation.

Date: March 8, 2024

Signature: Approved and Signed by

Printed Name / Title

Manabu Nara

Manabu Nara / General Manager

Quality Administration Department

Energy Device Business Division

Panasonic Energy Co., Ltd.

REGULATION (EU) 2023/1542
Article 6 : Restrictions on substances
Conformity Assessment Report

1. Product Information

Name of product	Poly-carbonmonofluoride Primary Lithium Coin Batteries
Category of battery	<input type="checkbox"/> Starting, lighting and ignition battery (SLI) <input type="checkbox"/> Electric vehicle battery (EV) <input type="checkbox"/> Light means of transport battery (LMT) <input checked="" type="checkbox"/> Industrial battery <input type="checkbox"/> Portable battery
Model number	BR1225A, BR1632A, BR2330A, BR2450A BR2477A

2. Subjected regulation and directive

The following regulations and directives are subject to Article 6: Substance Restrictions of REGULATION (EU) 2023/1542.

- Annex XVII to Regulation (EC) No 1907/2006
- Article 4(2), point (a), of Directive 2000/53/EC
- Annex I to REGULATION (EU) 2023/1542

3. Compatibility confirmation method

Since harmonized standards are specified in neither Article 6 nor Annex 1 of REGULATION (EU) 2023/1542, we use EN IEC 63000:2018 as a reference standard.

Confirmed by any of the following three methods.

- Supplier declarations: Non-use Warranty Certificates.
- Material declarations by supplier: List of specific substance content and identifying any exemptions.
- Analytical test results: Test data obtained by high-precision analysis (quantitative analysis) of product parts. Test data related to Hg, Cd, Pb, and Cr(VI) are applicable.

4. Conformity Assessment Result

We have confirmed that all parts of these battery products do not contain restricted substances by the applicable regulations.

Target regulation	Restricted substances	Target category	Threshold	Result
Annex XVII to Regulation (EC) No 1907/2006	Annex XVII Restricted substances	All batteries	Restriction conditions are set for each entry number.	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Article 4(2), point (a), of Directive 2000/53/EC	Hg	Batteries subject to ELV Directive	0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cd		0.01% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Pb		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cr (VI)		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
Annex I to REGULATION (EU) 2023/1542	Hg	All batteries	0.0005% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
	Cd	Portable Battery	0.002% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable
	Pb ^{※1}	Portable Battery	0.01% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable

※1 : Regulations for zinc-air button batteries will start from August 2028.

Note : This document provides the conformity assessment results of restrictions on substances. It does not indicate that the covered product is suitable for use in the battery category of the regulation.

Date: March 8, 2024

Signature: Approved and Signed by

Printed Name / Title



Manabu Nara / General Manager

Quality Administration Department

Energy Device Business Division

Panasonic Energy Co., Ltd.

REGULATION (EU) 2023/1542
Article 6 : Restrictions on substances
Conformity Assessment Report

1. Product Information

Name of product	Manganese Dioxide Primary Lithium Coin Batteries
Category of battery	<input type="checkbox"/> Starting, lighting and ignition battery (SLI) <input type="checkbox"/> Electric vehicle battery (EV) <input type="checkbox"/> Light means of transport battery (LMT) <input checked="" type="checkbox"/> Industrial battery <input checked="" type="checkbox"/> Portable battery
Model number	CR-1025, CR-1216, CR-1220, CR-1616, CR-1620 CR-1632, CR-2012, CR-2016, CR-2025, CR-2032 CR-2330 CR-2354, CR-2412, CR-2450, CR-2477 CR-3032

2. Subjected regulation and directive

The following regulations and directives are subject to Article 6: Substance Restrictions of REGULATION (EU) 2023/1542.

- Annex XVII to Regulation (EC) No 1907/2006
- Article 4(2), point (a), of Directive 2000/53/EC
- Annex I to REGULATION (EU) 2023/1542

3. Compatibility confirmation method

Since harmonized standards are specified in neither Article 6 nor Annex 1 of REGULATION (EU) 2023/1542, we use EN IEC 63000:2018 as a reference standard.

Confirmed by any of the following three methods.

- Supplier declarations: Non-use Warranty Certificates.
- Material declarations by supplier: List of specific substance content and identifying any exemptions.
- Analytical test results: Test data obtained by high-precision analysis (quantitative analysis) of product parts. Test data related to Hg, Cd, Pb, and Cr(VI) are applicable.

Conformity Assessment Result

We have confirmed that all parts of these battery products do not contain restricted substances by the applicable regulations.

Target regulation	Restricted substances	Target category	Threshold	Result
Annex XVII to Regulation (EC) No 1907/2006	Annex XVII Restricted substances	All batteries	Restriction conditions are set for each entry number.	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Article 4(2), point (a), of Directive 2000/53/EC	Hg	Batteries subject to ELV Directive	0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cd		0.01% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Pb		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cr (VI)		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
Annex I to REGULATION (EU) 2023/1542	Hg	All batteries	0.0005% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
	Cd	Portable Battery	0.002% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable
	Pb ^{※1}	Portable Battery	0.01% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable

※1 : Regulations for zinc-air button batteries will start from August 2028.

Date: February 16, 2024

Signature: Approved and Signed by

Printed Name / Title

Manabu Nara

Manabu Nara / General Manager

Quality Administration Department

Energy Device Business Division

Panasonic Energy Co., Ltd.

REGULATION (EU) 2023/1542
Article 6 : Restrictions on substances
Conformity Assessment Report

1. Product Information

Name of product	Manganese Dioxide Primary Lithium Coin Batteries
Category of battery	<input type="checkbox"/> Starting, lighting and ignition battery (SLI) <input type="checkbox"/> Electric vehicle battery (EV) <input type="checkbox"/> Light means of transport battery (LMT) <input checked="" type="checkbox"/> Industrial battery <input type="checkbox"/> Portable battery
Model number	CR2032A, CR2032B, CR2050A, CR2050B CR2450B

2. Subjected regulation and directive

The following regulations and directives are subject to Article 6: Substance Restrictions of REGULATION (EU) 2023/1542.

- Annex XVII to Regulation (EC) No 1907/2006
- Article 4(2), point (a), of Directive 2000/53/EC
- Annex I to REGULATION (EU) 2023/1542

3. Compatibility confirmation method

Since harmonized standards are specified in neither Article 6 nor Annex 1 of REGULATION (EU) 2023/1542, we use EN IEC 63000:2018 as a reference standard.

Confirmed by any of the following three methods.

- Supplier declarations: Non-use Warranty Certificates.
- Material declarations by supplier: List of specific substance content and identifying any exemptions.
- Analytical test results: Test data obtained by high-precision analysis (quantitative analysis) of product parts. Test data related to Hg, Cd, Pb, and Cr(VI) are applicable.

4. Conformity Assessment Result

We have confirmed that all parts of these battery products do not contain restricted substances by the applicable regulations.

Target regulation	Restricted substances	Target category	Threshold	Result
Annex XVII to Regulation (EC) No 1907/2006	Annex XVII Restricted substances	All batteries	Restriction conditions are set for each entry number.	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Article 4(2), point (a), of Directive 2000/53/EC	Hg	Batteries subject to ELV Directive	0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cd		0.01% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Pb		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cr (VI)		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
Annex I to REGULATION (EU) 2023/1542	Hg	All batteries	0.0005% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
	Cd	Portable Battery	0.002% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable
	Pb ^{※1}	Portable Battery	0.01% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable

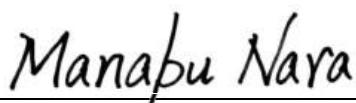
※1 : Regulations for zinc-air button batteries will start from August 2028.

Note : This document provides the conformity assessment results of restrictions on substances. It does not indicate that the covered product is suitable for use in the battery category of the regulation.

Date: March 8, 2024

Signature: Approved and Signed by

Printed Name / Title



Manabu Nara / General Manager

Quality Administration Department

Energy Device Business Division

Panasonic Energy Co., Ltd.

REGULATION (EU) 2023/1542
Article 6 : Restrictions on substances
Conformity Assessment Report

1. Product Information

Name of product	Vanadium Pent-oxide Secondary Lithium Coin Batteries
Category of battery	<input type="checkbox"/> Starting, lighting and ignition battery (SLI) <input type="checkbox"/> Electric vehicle battery (EV) <input type="checkbox"/> Light means of transport battery (LMT) <input checked="" type="checkbox"/> Industrial battery <input type="checkbox"/> Portable battery
Model number	VL1220, VL2020, VL2330, VL3032

2. Subjected regulation and directive

The following regulations and directives are subject to Article 6: Substance Restrictions of REGULATION (EU) 2023/1542.

- Annex XVII to Regulation (EC) No 1907/2006
- Article 4(2), point (a), of Directive 2000/53/EC
- Annex I to REGULATION (EU) 2023/1542

3. Compatibility confirmation method

Since harmonized standards are specified in neither Article 6 nor Annex 1 of REGULATION (EU) 2023/1542, we use EN IEC 63000:2018 as a reference standard.

Confirmed by any of the following three methods.

- Supplier declarations: Non-use Warranty Certificates.
- Material declarations by supplier: List of specific substance content and identifying any exemptions.
- Analytical test results: Test data obtained by high-precision analysis (quantitative analysis) of product parts. Test data related to Hg, Cd, Pb, and Cr(VI) are applicable.

4. Conformity Assessment Result

We have confirmed that all parts of these battery products do not contain restricted substances by the applicable regulations.

Target regulation	Restricted substances	Target category	Threshold	Result
Annex XVII to Regulation (EC) No 1907/2006	Annex XVII Restricted substances	All batteries	Restriction conditions are set for each entry number.	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Article 4(2), point (a), of Directive 2000/53/EC	Hg	Batteries subject to ELV Directive	0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cd		0.01% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Pb		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
	Cr (VI)		0.1% per homogeneous material	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input checked="" type="checkbox"/> Not applicable
Annex I to REGULATION (EU) 2023/1542	Hg	All batteries	0.0005% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
	Cd	Portable Battery	0.002% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable
	Pb ^{※1}	Portable Battery	0.01% per battery weight	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Not applicable

※1 : Regulations for zinc-air button batteries will start from August 2028.

Note : This document provides the conformity assessment results of restrictions on substances. It does not indicate that the covered product is suitable for use in the battery category of the regulation.

Date: March 8, 2024

Signature: Approved and Signed by

Printed Name / Title



Manabu Nara / General Manager

Quality Administration Department

Energy Device Business Division

Panasonic Energy Co., Ltd.