EUROPEAN
COMMISSION

Brussels, XXX
[…](2025) XXX draft

ANNEXES 1 to 5

ANNEXES

to the Commission Implementing Regulation (EU) .../... of XXX laying down rules for the application of Regulation (EU) 2023/1542 of the European Parliament and of the Council as regards format and harmonised specifications for certain labelling requirements

[mandatory element]

[mandatory element]

ANNEX I

Portable non-rechargeable batteries

Part A

Labelling information

The following information shall be included on the label:

I. the manufacturer's name, registered trade name or registered trademark, postal address with a single contact point and web and email address;

II. the battery category and model identification, batch or serial number or product number or another element enabling its identification;

III. the place of manufacture (town; region; country/jurisdiction);

IV. the date of manufacture (month and year);

V. the mass of the battery at the time of manufacturing (in grams or kilograms);

VII. the electrochemical composition on the basis of the specifications set out in Annex IV;

VIII. the names and concentrations of restricted and hazardous substances referred to in Article 4(1) and (2) in accordance with their nomenclature as set out in Article 18 of Regulation (EC) 1272/2008;

IX. the usable extinguishing agent or, if relevant, the fire class of that agent determined in accordance with standard EN 2:2005-01;

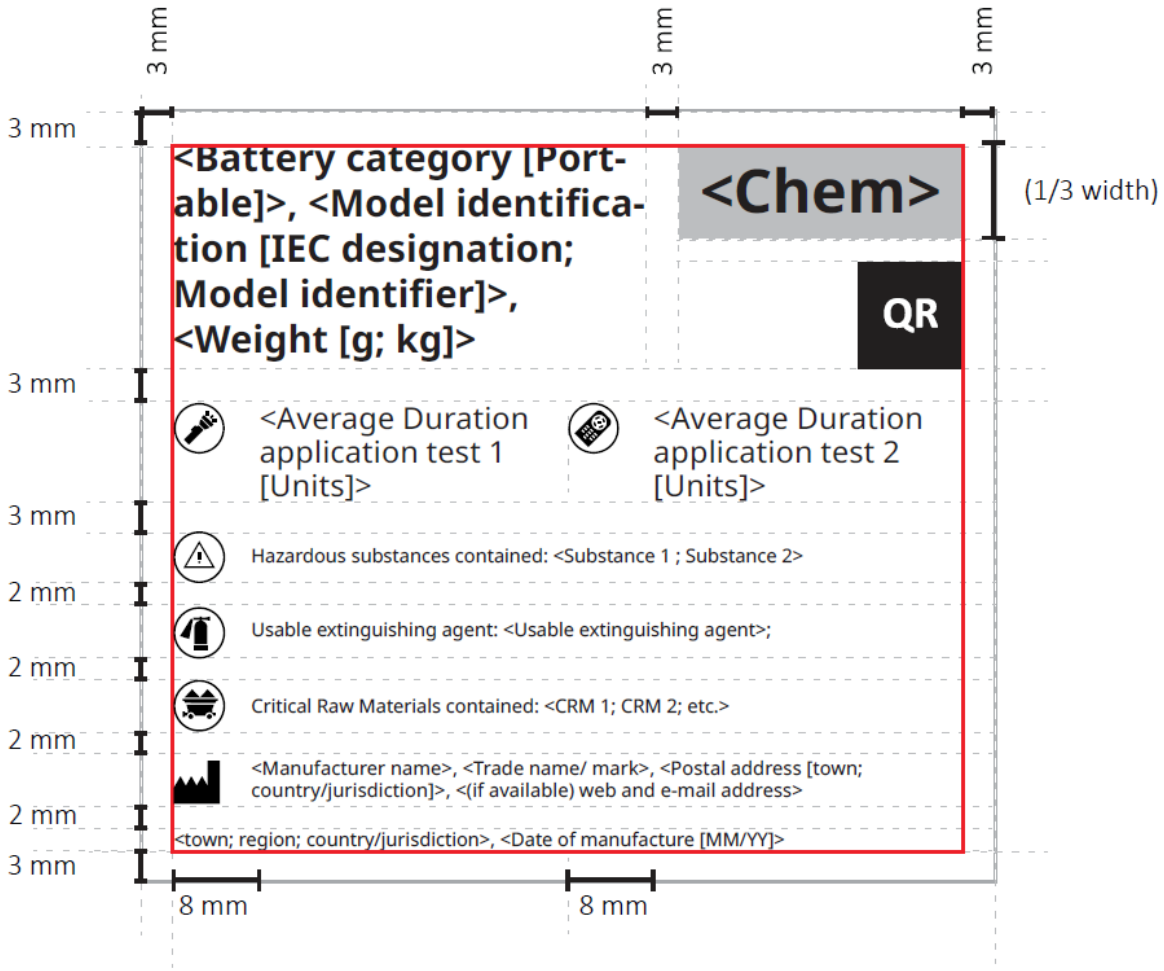
X. critical raw materials listed in Annex II to Regulation (EU) 2024/1252 of the European Parliament and of the Council[1] which are present in the battery in a concentration of more than 0,1 %, weight by weight;

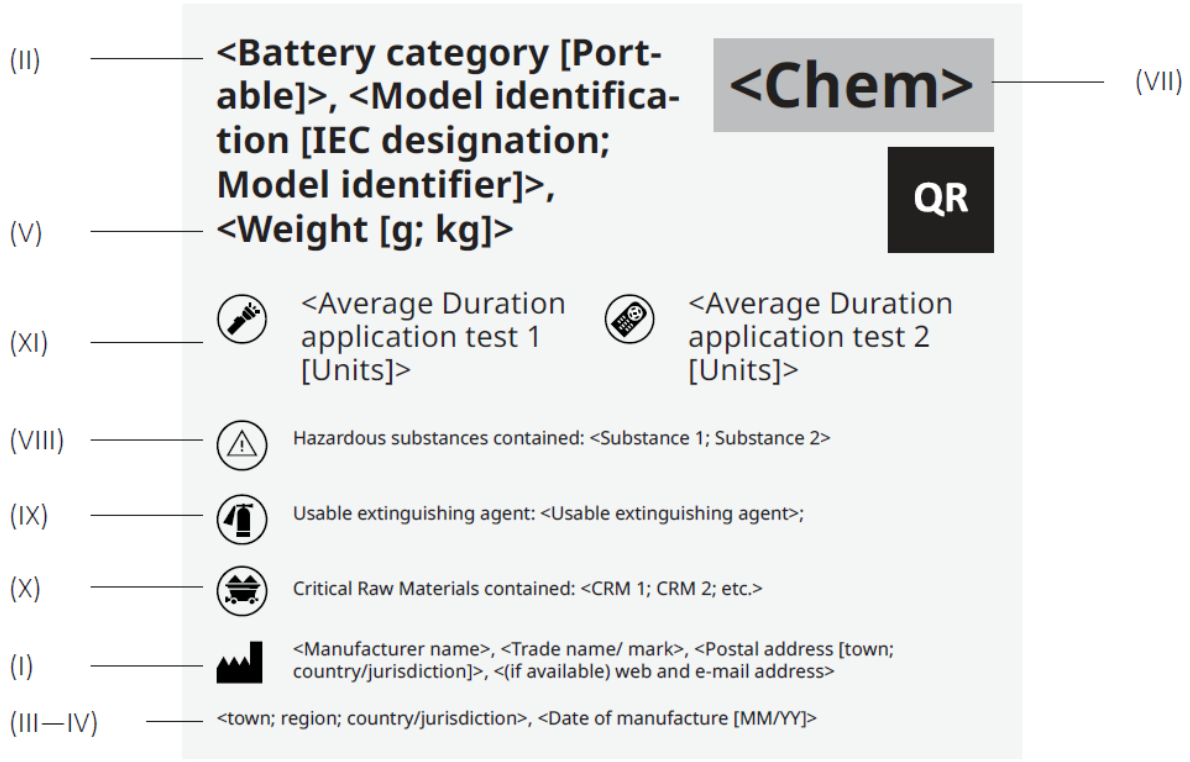
XI. the average duration of the battery when used in specific applications, in line with the specifications set out in Part C.

[1] Regulation (EU) 2024/1252 of the European Parliament and of the Council of 11 April 2024 establishing a framework for ensuring a secure and sustainable supply of critical raw materials and amending Regulations (EU) No 168/2013, (EU) 2018/858, (EU) 2018/1724 and (EU) 2019/1020 (Text with EEA relevance - http://data.europa.eu/eli/reg/2024/1252/oj

Part B

Label design





Whereby:

1. The information required under I, III, IV, VIII, IX and X shall be indicated using main text, regular, with a minimum font size of 5,7 points;
2. The information required under VII shall be indicated using Heading I, bold, with a minimum font size of 18 points;
3. The information required under II and V shall be indicated using Heading II, bold, with a minimum font size of 12 points;
4. The information required under XI shall be indicated using Heading III, bold, with a minimum font size of 8,5 points;
5. The typeface shall be Noto Sans or any other open-source font that is fully compatible with all Union official languages;
6. The margin border shall be 3 mm;
7. The QR code may be included on the label, instead of elsewhere on the surface of the battery;
8. The icons for XI on the average duration are illustrative.

Part C: Minimum average duration

1. The value of the minimum average duration shall be displayed for a minimum of one and a maximum of three representative applications of the portable non-rechargeable battery, which may include a generic output test.
2. The drain application discharge tests that have been used shall be mentioned in the documentation accompanying the battery. For the chosen applications, descriptive icons shall feature on the label. The value(s) of the minimum average duration(s) shall be placed beneath or to the right of the respective application icons.
3. The minimum average duration shall be indicated in minutes, hours, days, months or years. It shall be expressed as a decimal number with one digit when indicated in hours, days, months or years and as an integer when expressed in minutes.
4. The minimum size of the application icons shall be 5 mm x 5 mm.

ANNEX II

Portable rechargeable batteries, SLI batteries and LMT batteries

Part A

Labelling information

The following information shall be included on the label:

I. the manufacturer's name, registered trade name or registered trademark, postal address with single contact point and web and email address;

II. the battery category, model identification, and batch or serial number or product number or another element enabling its identification;

III. the place of manufacture (town; region; country/jurisdiction);

IV. the date of manufacture (month and year);

V. the mass of the battery at the time of manufacturing (in grams or kilograms);

VI. the capacity expressed in "milliampere-hour(s) or ampere-hour(s) using the abbreviations mAh or Ah respectively. For SLI batteries, the cranking current shall also be displayed, expressed in Amperes (A), unless the battery is not specifically designed for starting purposes;

VII. the electrochemical composition on the basis of the specifications set out in Annex IV;

VIII. the names and concentrations of restricted and hazardous substances referred to in Article 4(1) and (2) in accordance with their nomenclature as set out in Article 18 of Regulation (EC) 1272/2008;

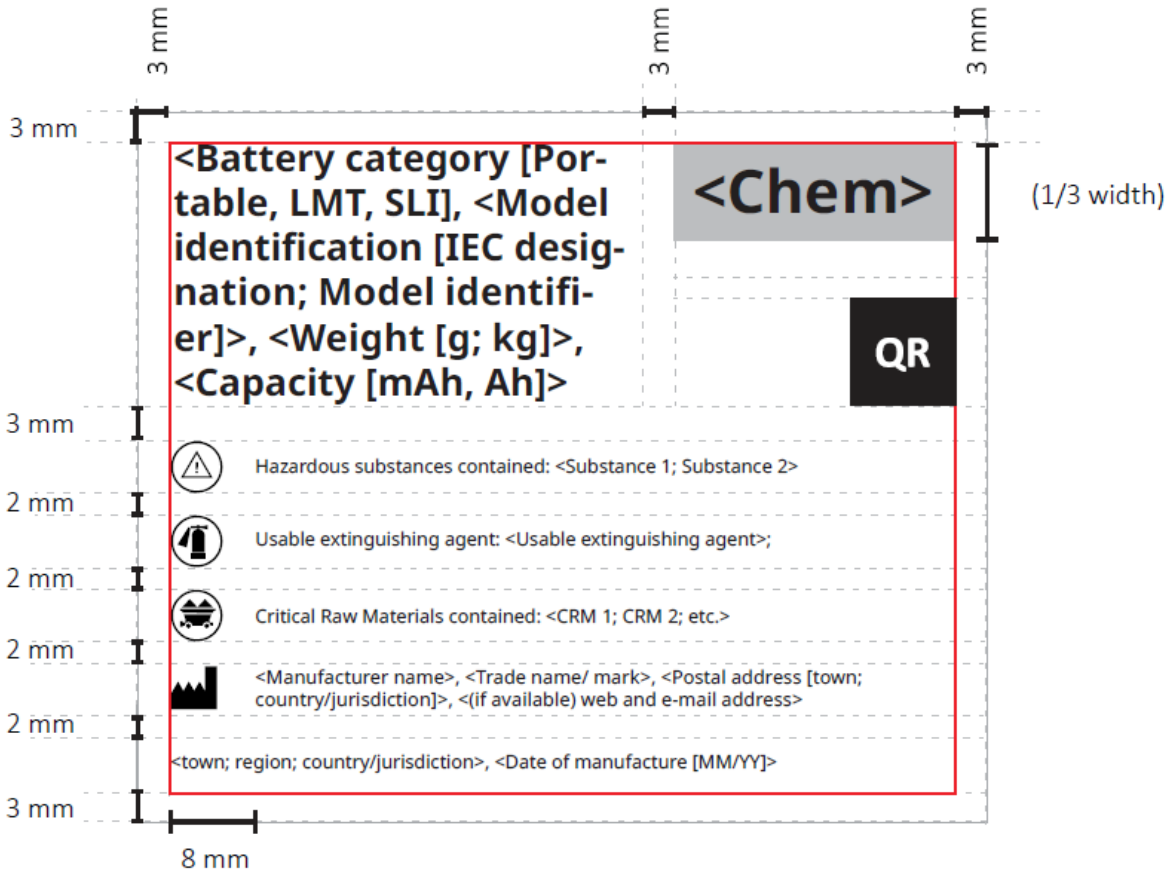
IX. the usable extinguishing agent or, if relevant, the fire class of that agent according to standard EN 2:2005-1;

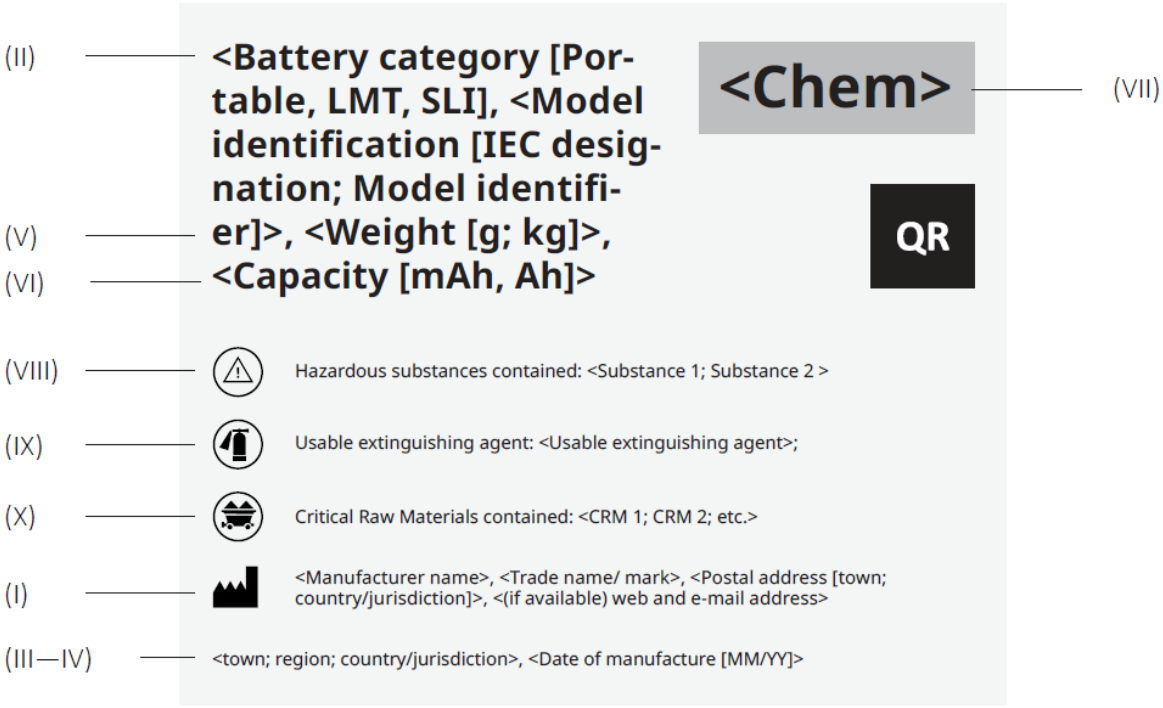
X. critical raw materials listed in Annex II to Regulation (EU) 2024/1252[2] which are present in the battery in a concentration of more than 0.1% weight by weight.

[2] Regulation (EU) 2024/1252 of the European Parliament and of the Council of 11 April 2024 establishing a framework for ensuring a secure and sustainable supply of critical raw materials and amending Regulations (EU) No 168/2013, (EU) 2018/858, (EU) 2018/1724 and (EU) 2019/1020 (Text with EEA relevance - http://data.europa.eu/eli/reg/2024/1252/oj

Part B

Label design




(II)
<Battery category [Portable, LMT, SLI], <Model identification [IEC designation; Model identifier]>, <Weight [g; kg]>, <Capacity [mAh, Ah]>
<Chem>
(VII)
QR
(V)
(VI)
(VIII)
Hazardous substances contained: <Substance 1; Substance 2 >
(IX)
Usable extinguishing agent: <Usable extinguishing agent>;
(X)
Critical Raw Materials contained: <CRM 1; CRM 2; etc.>
(I)
<Manufacturer name>, <Trade name/ mark>, <Postal address [town; country/jurisdiction]>, <(if available) web and e-mail address>
(III—IV)
<town; region; country/jurisdiction>, <Date of manufacture [MM/YY]>

Whereby:

1. The information required under I, III, IV, VIII, IX and X shall be indicated using main text, regular, with a minimum font size of 5,7 points.
2. The information required under VII shall be indicated using Heading I, bold, with a minimum font size of 18 points.
3. The information required under II, V and VI shall be indicated using Heading II, bold, with a minimum font size of 12 points.
4. The information required under XI shall be indicated using Heading III, bold, with a minimum font size of 8,5 points.
5. The typeface shall be Noto Sans or any other open-source font that is fully compatible with all Union official languages.
6. The margin border shall be 3 mm.
7. The QR code may be included on the label, instead of elsewhere on the surface of the battery.

ANNEX III

Electric vehicle batteries and industrial batteries

Part A

Labelling information

The following information shall be included on the label:

I. the manufacturer's name, registered trade name or registered trademark, postal address with single contact point and web and email address;

II. the battery category model identification, batch or serial number or product number or another element allowing its identification;

III. the place of manufacture (town; region; country/jurisdiction);

IV. the date of manufacture (month and year);

V. the mass of the battery at the time of manufacturing (in grams or kilograms);

VII. the electrochemical composition on the basis of the specifications referred to in Annex IV;

VIII. the names and concentrations of restricted and hazardous substances referred to in Article 4(1) and (2) in accordance with their nomenclature as set out in Article 18 of Regulation (EC) 1272/2008;

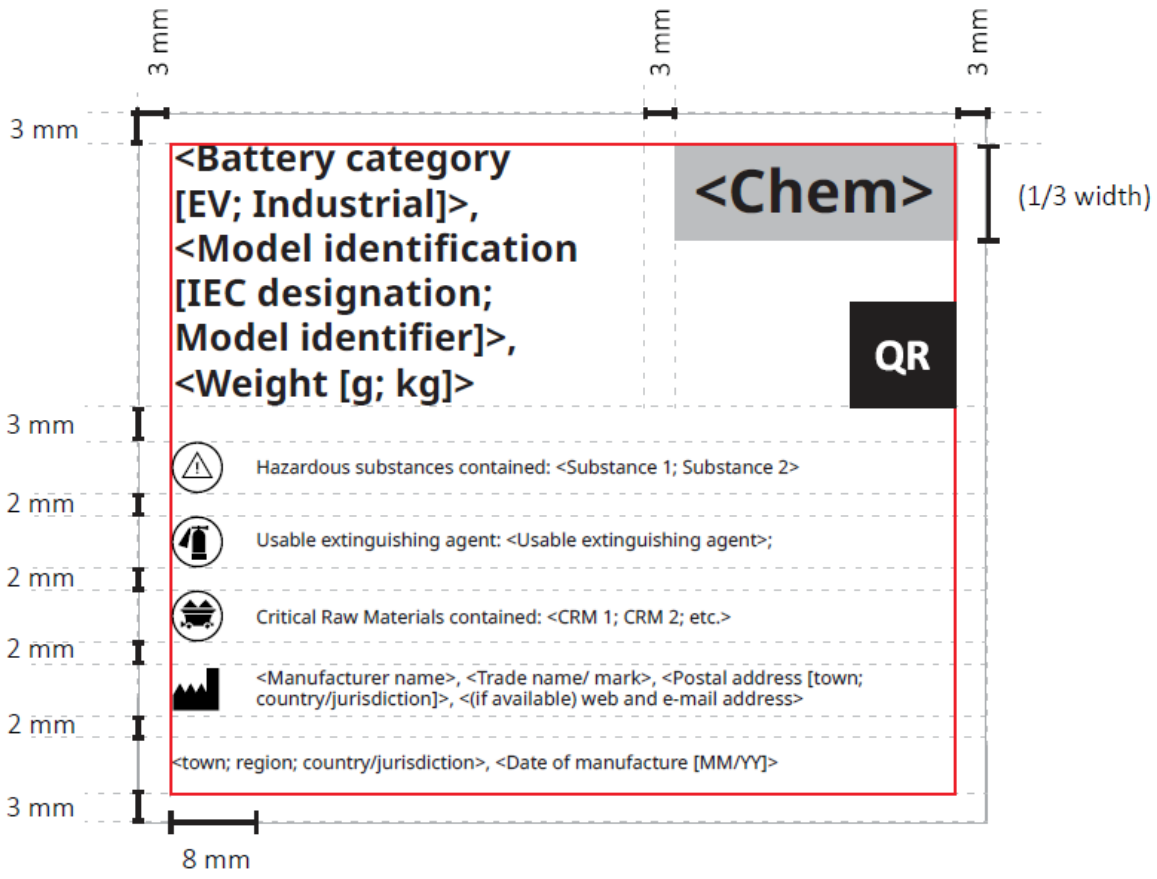
IX. the usable extinguishing agent or, if relevant, the agent class according to standard EN 2:2005-1;

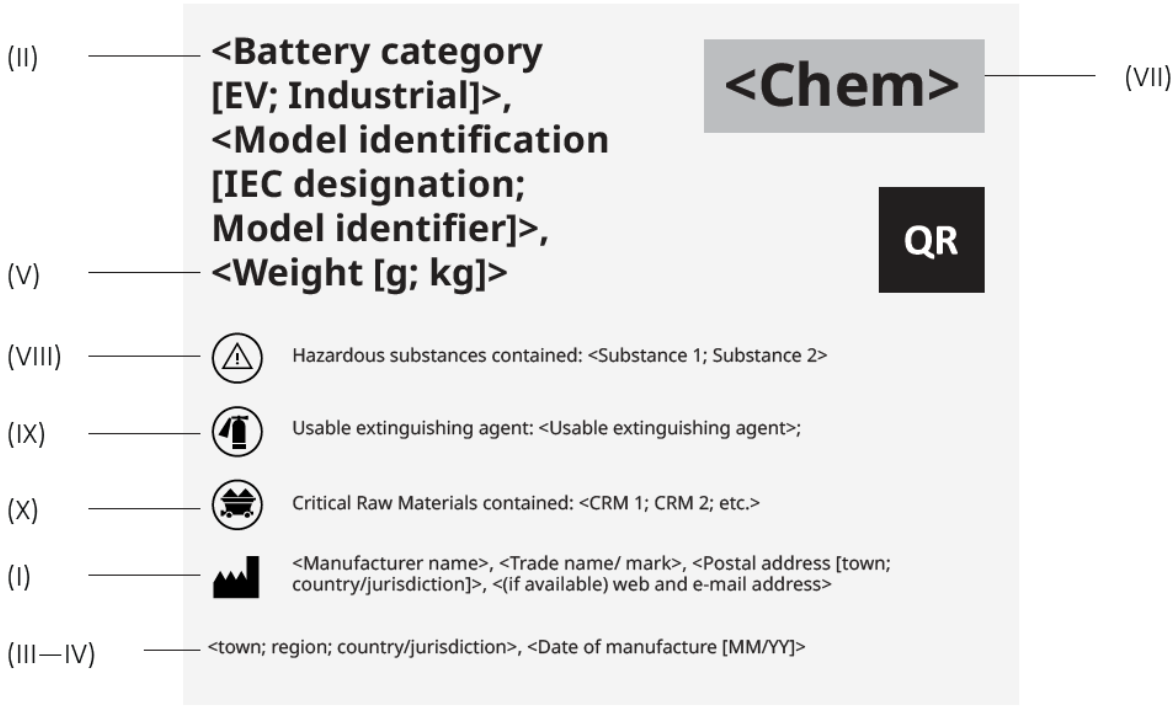
X. critical raw materials listed in Annex II to Regulation (EU) 2024/1252[3] which are present in the battery in a concentration of more than 0.1% weight by weight.

[3] Regulation (EU) 2024/1252 of the European Parliament and of the Council of 11 April 2024 establishing a framework for ensuring a secure and sustainable supply of critical raw materials and amending Regulations (EU) No 168/2013, (EU) 2018/858, (EU) 2018/1724 and (EU) 2019/1020 (Text with EEA relevance - http://data.europa.eu/eli/reg/2024/1252/oj

Part B

Label design




(II)
<Battery category [EV; Industrial]>, <Model identification [IEC designation; Model identifier]>,
(V)
<Weight [g; kg]>
<Chem>
(VII)
QR
(VIII)
Hazardous substances contained: <Substance 1; Substance 2>
(IX)
Usable extinguishing agent: <Usable extinguishing agent>;
(X)
Critical Raw Materials contained: <CRM 1; CRM 2; etc.>
(I)
<Manufacturer name>, <Trade name/ mark>, <Postal address [town; country/jurisdiction]>, <(if available) web and e-mail address>
(III—IV)
<town; region; country/jurisdiction>, <Date of manufacture [MM/YY]>

Whereby:

1. The information required under I, III, IV, VIII, IX and X shall be indicated using main text, regular, with a minimum font size of 5,7 points.
2. The information required under VII shall be indicated using Heading I, bold, with a minimum font size of 18 points.
3. The information required under II and V and shall be indicated using Heading II, bold, with a minimum font size of 12 points.
4. The typeface shall be Noto Sans or any other open-source font that is fully compatible with all Union official languages.
5. The QR code may be included on the label, instead of elsewhere on the surface of the battery.
6. The margin border shall be 3 mm.

ANNEX IV

Electrochemical composition nomenclature

1. For non-rechargeable batteries, the electrochemical composition shall be indicated, if relevant, based on a simplified categorization of “alkaline”, “sodium”, “zinc” or “lithium”, or based on the molecular formula of the electrodes as defined in standard IEC 60086-1:2021, as follows:

   No letter: “$Zn\text{-}MnO_2$”

   A: “$Zn\text{-}O_2$”

   B: “$Li\text{-}CFx$”

   C: “$Li\text{-}MnO_2$”

   E: “$Li\text{-}SOCl_2$”

   F: “$Li\text{-}FeS_2$”

   G: “$Li\text{-}CuO$”

   L: “$Zn\text{-}MnO_2$”

   P: “$Zn\text{-}O_2$”

   S: “$Zn\text{-}AgO_2$”

   W: “$Li\text{-}SO_2$”

   Y: “$Li\text{-}SO_2Cl_2$”

   Z: “Zn-NiOOH”

2. For non-rechargeable batteries whose electrochemical composition is not included in standard IEC 60086-1:2021, that composition shall be indicated according to the molecular formula of the electrodes.

3. For non-rechargeable batteries whose electrochemical composition includes more than one of the molecular formulae listed in point 1, all relevant formulae shall be displayed.

4. For rechargeable batteries, the electrochemical composition shall be indicated as follows:

   Lead acid: “Pb”

   Nickel cadmium: “Ni-Cd”

   Nickel metal hydride: “Ni-MH”

   Lithium ion NMC: “Li-ion NMC”

   Lithium ion LFP: “Li-ion LFP”

   Lithium ion LMO: “Li-ion LMO”

   Lithium ion LCO: “Li-ion LCO”

   Lithium ion NCA: “Li-ion NCA”

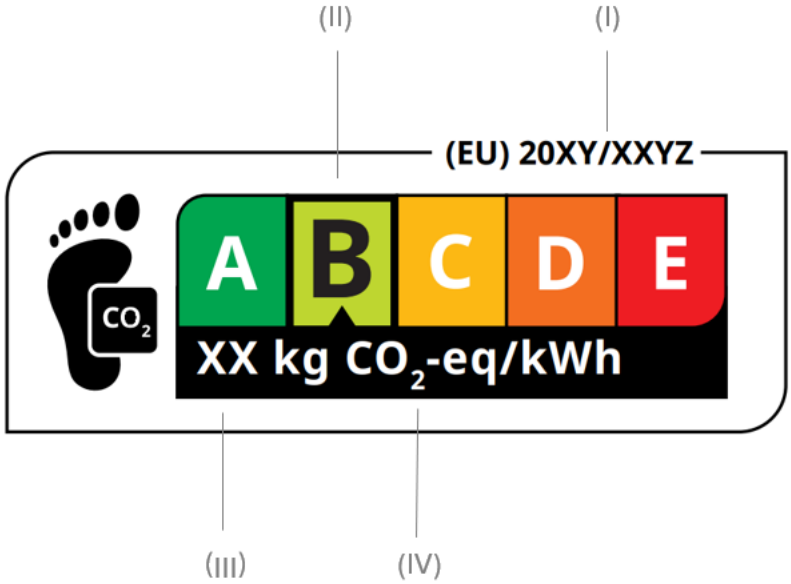
   Lithium metal: “Li-metal”

   Sodium-ion: “Na-ion”

5. For rechargeable batteries whose electrochemical composition does not correspond to any of the categories listed in point 4, that composition shall be indicated based according to the molecular formula of the electrodes.

ANNEX V

Format of the carbon footprint label



The following information shall be included in the label:

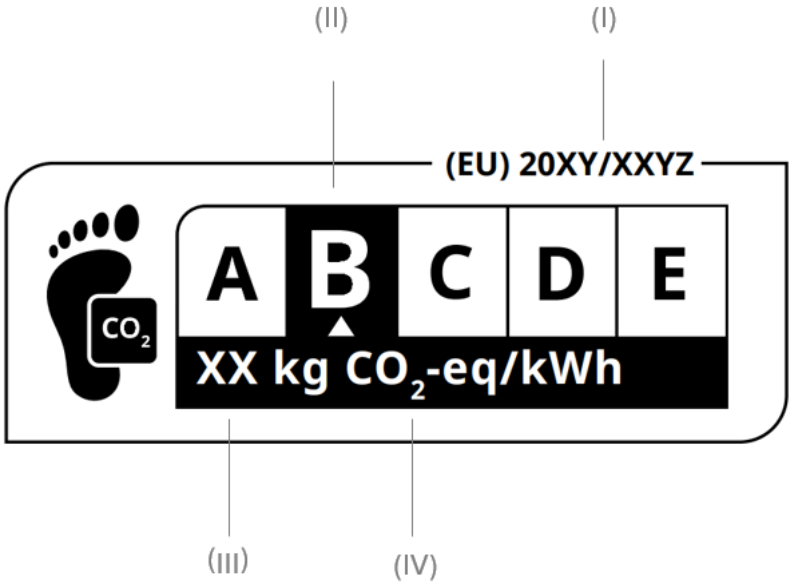
I. Reference to the relevant delegated act adopted pursuant to Article 7(2), fourth subparagraph, point (a), of Regulation (EU) 2023/1542 establishing the carbon footprint performance classes of the relevant battery category;

II. Declaration of the carbon footprint performance class based on the relevant delegated act adopted pursuant to Article 7(2), fourth subparagraph, point (a), of Regulation (EU) 2023/1542 establishing the carbon footprint performance classes;

III. Declared life-cycle carbon footprint expressed in a resolution of two significant figures in accordance with the methodology set out in the delegated acts adopted pursuant to Article 7(1), fourth subparagraph, point (a), of Regulation (EU) 2023/1542;

IV. Functional unit in accordance with the methodology set out in the delegated acts adopted pursuant to Article 7(1), fourth subparagraph, point (a), of Regulation (EU) 2023/1542. Where the functional unit is 'kg CO2-equivalent per kWh of the total energy provided by the battery over its expected service life', it shall be abbreviated to 'kg CO2-eq/kWh'. Where, pursuant to point 3 of Annex II to Regulation (EU) 2023/1542, the applicable delegated act establishing the methodology for calculation and verification of the carbon footprint specifies a different functional unit, an equivalent appropriate abbreviation shall be used.

Whereby:

1. The information in the label shall be indicated using the Noto Sans font or any other open-source font that is fully compatible with all Union official languages.
2. Where the label is printed, it shall be at least 9,7 mm wide and 4,2 mm high. Where the label is printed in a larger format, its content shall nevertheless remain proportionate to those minimum size specifications;
3. Colours shall be CMYK – cyan, magenta, yellow and black, following this example: 0,70,100,0: 0 % cyan, 70 % magenta, 100 % yellow, 0 % black;
4. The background of the label shall be 100 % white and the inner border of the label shall be 100 % black;
5. The colours of the A to E scale shall be as follows:
   - A-class: 100,0,100,0;
   - B-class: 30,0,100,0;
   - C-class: 0,30,100,0;
   - D-class: 0,70,100,0;
   - E-class: 0,100,100,0;

Where the carbon footprint label is printed or engraved on the surface of the battery, it may also be displayed in the following black and white format, in which case points 3 and 5 shall not apply: