

DRAFT of the 7th amendment to the recast of **xx.xx.2025**

BASIS FOR ASSESSMENT

Assessment basis for metal materials in contact with drinking water^{1,2}

DRAFT

¹ Notified in accordance with Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services (OJ L 241, 17.9.2015, p. 1).

² Notified under 2025/xxx/D

Changes

The following amendments shall be made:

- I. In point 2.1.3.7 of the Annex, the * sign is inserted for the unavoidable accompanying elements P and Si.**
- II. In point 2.1.3.8 of the Annex, the * sign is inserted for the unavoidable accompanying elements P and Si.**
- III. In point 2.2.1 of the Annex, the category boundary is amended as follows:**
- a) The upper category boundary of Al is replaced by 0.9 % (m/m).**
- b) The elements Ni, with a content ≤ 0.05 % (m/m), and Si, with a content of ≤ 0.05 % (m/m), are added as unavoidable accompanying elements.**
- IV. In point 2.2.2 of the Annex, the elements Ni, with a content of 0.03 -0.05 % (m/m), and Si, with a content of ≤ 0.05 % (m/m), are inserted as unavoidable accompanying elements.**
- V. In point 2.2 of the Annex, the material CuZn39Al-C is added as a new point 2.2.3.2:**

2.2.3.2CuZn39Al-C

Designation	Product group
CuZn39Al-C	B - D

Alloy constituents (% (m/m)):

Cu	Zn	Al
58.0 % - 63.0 %	Rest	0.3 % - 0.9 %

Unavoidable accompanying elements (% (m/m)):

Fe	Ni	Pb	Si	Sn
≤ 0.3 %	≤ 0.05 %	≤ 0.1 %	≤ 0.05 %	≤ 0.3 %

- VI. In the Annex, point 2.11.3.1 is amended as follows:**
- a) The * sign is added to the designation in the table.**
- b) The * sign is added to the alloy constituent Pb.**
- c) The explanation of the * sign 'Further restrictions on composition (see below) compared to the standardised European composition of CC757S' is deleted.**
- VII. In the Annex, point 2.12.3.1 is amended as follows:**
- a) The * sign is added to the designation in the table.**
- b) The * sign is added to the alloy constituent Pb.**

- c) The explanation of the * sign 'Further restrictions on composition (see below) compared to the standardised European composition of CC770S' is inserted.

VIII. In the Annex, a new point 2.15 'Copper-zinc-bismuth-aluminium alloys' with the material CuZn38Bi1Al-C is inserted:

2.15 Copper-zinc-bismuth-aluminium alloys

2.15.1 Category boundaries

Alloy constituents (% (m/m)):

Cu	Zn	Bi	Al
≥ 58.0 %	Rest	0.2 % - 1.6 %	0.2 % - 1.0 %

Unavoidable accompanying elements (% (m/m)):

Fe	Mn	Ni	Pb	Si	Sn
≤ 0.5 %	≤ 0.1 %	≤ 0.05 %	≤ 0.1 %	≤ 0.1 %	≤ 0.5 %

2.15.2 Reference material

Alloy constituents (% (m/m)):

Cu	Zn	Bi	Al
58.0 % - 63.0 %	Rest	1.3 % - 1.6 %	0.3 % - 0.6 %

Unavoidable accompanying elements (% (m/m)):

Fe	Mn	Ni	Pb	Si	Sn
≤ 0.3 %	≤ 0.05 %	0.03 % - 0.05 %	0.09 % - 0.15 %	≤ 0.05 %	≤ 0.5 %

Elements to be determined in comparative testing as per DIN EN 15664-1 in contact water: Aluminium, bismuth, lead, copper, nickel, zinc

Most critical test water:

Test water 1 and 2 in accordance with DIN EN 15664-2

2.15.3 Materials suitable for use in drinking water systems

2.15.3.1 CuZn38Bi1Al-C

Designation	Product group
CuZn38Bi1Al-C	B - D

Alloy constituents (% (m/m)):

Cu	Zn	Bi	Al
58.0 % - 63.0 %	Rest	0.3 % - 1.6 %	0.3 % - 0.9 %

Unavoidable accompanying elements (% (m/m)):

Fe	Mn	Ni	Pb	Si	Sn
≤ 0.3 %	≤ 0.05 %	≤ 0.05 %	≤ 0.1 %	≤ 0.05 %	≤ 0.5 %

IX. In the Annex, the insertion of the new point 2.15 results in the displacement of the further numbering in point 2.

X. In the Annex, point 2.17.3.1 (new numbering!) is amended as follows:

- a) the standard designation CC470K is inserted**
- b) CuSn4Zn2PS is inserted in brackets behind it.**

XI. In point 2.19.1 (new numbering!) of the Annex, the maximum content of the unavoidable accompanying element Sn is replaced by 0.2 % (m/m).

XII. In the Annex, point 2.19.3.1 (new numbering!) is amended as follows:

- a) The upper content boundary of the unavoidable accompanying element Sn is replaced by 0.2 % (m/m).**
- b) The * sign is added to the designation in the table.**
- c) The * sign is added to the unavoidable accompanying element Sn.**
- d) The explanation of the * sign 'Further restrictions on composition (see below) compared to the standardised European composition of CW724R' has been inserted.**

XIII. In the Annex, point 2.19.3.2 (new numbering) is amended as follows:

- a) The upper content boundary of the unavoidable accompanying element Sn is replaced by 0.2 % (m/m).**
- b) The * sign is added to the designation in the table.**
- c) The * sign is added to the unavoidable accompanying element Sn.**
- d) The explanation of the * sign 'Further restrictions on composition (see below) compared to the standardised European composition of CC768S' has been inserted.**

XIV. In the Annex, a new point 2.20 'Copper-zinc-silicon-tin-phosphorus alloys' with the material CW729R (CuZn29Si1SnP) is inserted:

2.20 Copper-zinc-silicon-tin-phosphorus alloys

2.20.1 Category boundaries

Alloy constituents (% (m/m)):

Cu	Zn	Si	Sn	P
58.0 % - 80.0 %	Rest	0.10 % - 5.5 %	0.2 % - 0.5 %	0.01 % - 0.3 %

Unavoidable accompanying elements (% (m/m)):

Al	Fe	Mn	Ni	Pb
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≤ 0.1 %	≤ 0.5 %	≤ 0.05 %	≤ 0.2 %	≤ 0.1 %
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2.20.2 Reference material

Alloy constituents (% (m/m)):

Cu	Zn	Si	Sn	P
68.5 % - 70.5 %	Rest	1.30 % - 1.43 %	0.15 % - 0.35 %	0.10% - 0.15 %

Unavoidable accompanying elements (% (m/m)):

Al	Fe	Mn	Ni	Pb
≤ 0.05 %	≤ 0.1 %	≤ 0.05 %	0.06 % - 0.10 %	0.09 % - 0.15 %

Elements to be determined in comparative testing as per DIN EN 15664-1 in contact water: Lead, copper, nickel, zinc

Most critical test water:

Test water 1 in accordance with DIN EN 15664-2

2.20.3 Materials suitable for use in drinking water systems

2.20.3.1 CW729R-DW (CuZn29Si1SnP)

Designation	Product group
CW729R-DW (CuZn29Si1SnP)	B - D

Alloy constituents (% (m/m)):

Cu	Zn	Si	Sn
68.5 % - 70.5 %	Rest	1.30 % - 1.55 %	0.15 % - 0.35 %

Unavoidable accompanying elements (% (m/m)):

Al	Fe	Mn	Ni	Pb
≤ 0.05 %	≤ 0.1 %	≤ 0.05 %	≤ 0.10 %	≤ 0.10 %

XV. In the Annex, the insertion of the new point 2.20 results in the displacement of the further numbering in point 2.

XVI. In the Annex, a new point 2.21 'Copper-zinc-manganese-silicon-tin-aluminium alloys' with the material CuZn36Mn1Si1Sn1Al-C is inserted:

2.21 Copper-zinc-manganese-silicon-tin-aluminium alloys

2.21.1 Category boundaries

Alloy constituents (% (m/m)):

Cu	Zn	Mn	Si	Sn	Al
≥	Rest	0.2 % - 2.	0.2 % - 2.	0.4 % - 1.	0.02 % - 1.

58.0 %		0 %	0 %	5 %	0 %
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Unavoidable accompanying elements (% (m/m)):

Fe	Ni	P	Pb
≤ 0.3 %	≤ 0.2 %	≤ 0.3 %	≤ 0.1 %

2.21.2 Reference material

Alloy constituents (% (m/m)):

Cu	Zn	Mn	Si	Sn	Al
58.0 % - 63.0 %	Rest	1.6 % - 2.0 %	0.2 % - 1.1 %	0.4 % - 1.5 %	0.02% - 0.46 %

Unavoidable accompanying elements (% (m/m)):

Fe	Ni	P	Pb
≤ 0.3 %	0.09 % - 0.15 %	≤ 0.3 %	0.09 % - 0.15 %

Elements to be determined in comparative testing as per DIN EN 15664-1 in contact water: Aluminium, lead, copper, nickel, manganese, zinc

Most critical test water:

Test water 1 in accordance with DIN EN 15664-2

2.21.3 Materials suitable for use in drinking water systems

2.21.3.1 CuZn36Mn1Si1Sn1Al-C

Designation	Product group
CuZn36Mn1Si1Sn1Al-C	B - D

Alloy constituents (% (m/m)):

Cu	Zn	Mn	Si	Sn	Al
58.0 % - 63.0 %	Rest	0.2 % - 2.0 %	0.2 % - 2.0 %	0.4 % - 1.5 %	0.02 % - 0.9 %

Unavoidable accompanying elements (% (m/m)):

Fe	Ni	P	Pb
≤ 0.3 %	≤ 0.1 %	≤ 0.3 %	≤ 0.10 %

XVII. In the Annex, the insertion of the new point 2.21 results in the displacement of the further numbering in point 2.

XVIII. In the Annex, point 2.22.3.3 (new numbering!) is amended as follows:

- The standard designation CW245E-DW is inserted.**
- CuSi4Zn4MnP is inserted in brackets behind it.**
- The * sign is added to the designation in the table.**
- The * sign is added to the unavoidable accompanying element Ni.**
- The explanation of the * sign 'Further restrictions on composition (see below) compared to the standardised European composition of CW245E' is inserted.**

XIV. In the Annex, point 2.22.3.4 (new numbering!) is amended as follows:

- The standard designation CW246E-DW is inserted.**
- CuSi4Zn9MnP is inserted in brackets behind it.**
- The * sign is added to the designation in the table.**
- The * sign is added to the unavoidable accompanying element Ni.**
- The explanation of the * sign 'Further restrictions on composition (see below) compared to the standardised European composition of CW246E' is inserted.**

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