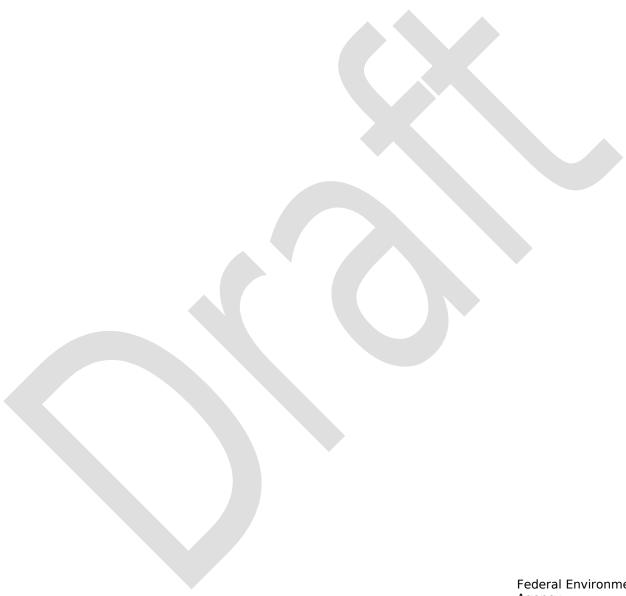
For Humanity and the Environment

Umwelt 😚 Bundesamt

DRAFT of the 6th amendment to the recast of xx.xx.2025

BASIS FOR ASSESSMENT

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



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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

Amendments

The following amendments shall be made:

I. In the Annex 'Positive List of metal materials suitable for drinking water hygiene', a new point 2.9 'Copper-zinc-magnesium alloys' and the material CuZn41Mg shall be added:

2.9 Copper-zinc-magnesium alloys

2.9.1 Category boundaries

Alloy constituents (% (m/m)):

Cu	Zn	Mg
56.0-	Rest	0.1-1.5
66.0 %	Rest	%

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

			Pb	
≤ 0.3	≤ 0.5	≤ 0.2 %	≤ 0.10	
%	%	%	%	

2.9.2 Reference material

Alloy constituents (% (m/m)):

Cu	Zn	Mg
57.0 % -	Rest	0.4 % -
60.0 %	Rest	0.5 %

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

Al	Fe	Ni	Pb
≤ 0.1	≤ 0.3	0.15 % -	0.06 % -
%	%	0.25 %	0.10 %

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 and 2 in accordance with DIN EN 15664-2

2.9.3 CuZn41Mg

Designa tion	Product group
CuZn41 Mg	B - D

Alloy constituents (% (m/m)):

Cu	Zn	Mg
57.0 % - 60.0 %	Rest	0.1 % - 0.5 %

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

Al	Fe	Ni	Pb
≤ 0.1	≤ 0.3	≤ 0.2	≤ 0.10 %
%	%	%	%

- II. In the Annex 'Positive list of metal materials suitable for drinking water hygiene', the insertion of the new point 2.9 results in the displacement of the further numbering in point 2.
- III. In the Annex 'Positive list of metal materials suitable for drinking water hygiene', a new point 2.17 (new numbering resulting from the above-mentioned displacement!) is added. 'Copper-zinc-silicon alloys' and the material CC761S (CuZn16Si4-C) added:

III.17. Copper-zinc-silicon alloys

III.17.1. Category limits

Alloy constituents (% (m/m)):

Cu	Zn	Si
80.0-	Doct	1.0 % -
90.0 %	Rest	5.0 %

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

Al	Fe	Mn	Ni	P	Pb	Sb	Sn
≤ 0.1	≤ 0.2	≤ 0.05	≤ 0.1	≤ 0.05	≤ 0.1	≤ 0.05	≤ 0.3
%	%	%	%	%	%	%	%

2.17.2 Reference material

Alloy constituents (% (m/m)):

Cu	Zn	Si
81.0 % - 83.0 %	Rest	3.0 % - 3.75 %

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

Al	Fe	Mn	Ni	P	Pb	Sb	Sn
≤ 0.1	≤ 0.2	≤ 0.04	0.09 % -	≤ 0.03	0.09 % -	0.03 %	≤ 0.3
%	%	%	0.15 %	%	0.15 %	- 0.05%	%

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

Most critical test water:

Test water 1 in accordance with DIN EN 15664-2

2.17.3 Materials suitable for use in drinking water systems

2.17.3.1 CC761S (CuZn16Si4-C)

Designation	Product group
CC761S*	B - D
(CuZn16Si4-C)	D - D

^{*} further restrictions on composition (see below) compared to the standardised European composition of CC761S

Alloy constituents (% (m/m)):

Cu*	Zn	Si*
81.0 % -	Rest	3.0 % -
83.0 %	rest	4.5 %

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

Al	Fe	Mn*	Ni*	P	Pb*	Sb	Sn
≤ 0.1	≤ 0.2	≤ 0.04	≤ 0.1	≤ 0.03	≤ 0.1	≤ 0.05	≤ 0.3
%	%	%	%	%	%	%	%

Heat treatment is required for this material in order to avoid selective corrosion by reducing the β phase.

- IV. In the Annex 'Positive list of metal materials suitable for drinking water hygiene', the insertion of the new point 2.17 results in the displacement of the further numberings in point 2.
- V. In the Annex 'Positive list of metal materials suitable for drinking water hygiene purposes', point 2.18 (new numbering resulting from the above-mentioned displacement!) In 'Copper-zinc-silicon-phosphorus alloys', the lower category limit of Cu is changed to '58.0 % (m/m)' and the lower category limit from silicon to '0.10 % (m/m)'.
- VI. In the Annex 'Positive list of metal materials suitable for drinking water hygiene', point 2.18 (new numbering resulting from the abovementioned displacement!) In 'Copper-zinc-silicon-phosphorus alloys', the material CW728R-DW (CuZn40SiP) is added as point 2.18.3.3:

2.18.3.3 CW728R-DW (CuZn40SiP) (entry valid until 30 June 2026)

I Designation	Product group
CW728R-DW (CuZn40SiP)	B - D

Alloy constituents (% (m/m)):

Cu	Zn	Si	P
58.5 % -	Doct	0.10 % -	0.10 % -
60.5 %	Rest	0.3 %	0.20 %

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

	Fe		Ni		Sn
≤ 0.05 %	≤ 0.2	≤ 0.05	≤ 0.10	≤ 0.10	≤ 0.2
%	%	%	%	%	%

VII. In the Annex 'Positive list of metal materials suitable for drinking water hygiene', point 2.18 (new numbering resulting from the abovementioned displacement!) In 'Copper-zinc-silicon-phosphorus alloys', the material CW726R-DW (CuZn36SiP) is added as point 2.18.3.4:

2.18.3.4 CW726R-DW (CuZn36SiP) (entry valid until 30 June 2026)

Designation	Product group
CW726R-DW* (CuZn36Si1P)	B - D

^{*} further restrictions on composition (see below) compared to the standardised European composition of CW726R-DW

Alloy constituents (% (m/m)):

Cu	Zn	Si	P
60.5 % - 64.5 %	Rest		0.01 % - 0.10 %

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

Al*	Fe	Mn*	Ni*	Pb*	Sn
≤ 0.05	≤ 0.2	≤ 0.05	≤ 0.05	≤ 0.09	≤ 0.2
%	%	%	%		%

