



## EU publishes second edition of the technical guide metals and alloys in food contact materials and articles

On August 1, 2024, the EDQM released the second edition of the "Metals and Alloys in Food Contact Materials and Articles" Technical Guide, which is a supplement to the European Council's Resolution CM/Res(2020)9, and aims to ensure the safety of food contact materials (FCM) metal and alloy products to protect the health of consumers. Compared with the previous version of the technical guide, the new version of the guide mainly updates three aspects: 1. Updated release element requirements, 2. Updated test conditions guidance, 3. Deleted the Declaration of Conformity section in the first edition. The specific updates are as follows:

### 1. Updated release element requirements:

#### Alloy element release requirements

Symbol	Name	Second edition SRL[mg/kg]	First Edition SRL[mg/kg]
Al	Aluminum	5	5
Sb	Antimony	0.04	0.04
Cr	Chromium (III)	1	0.250 (Chromium )
Co	Cobalt	0.02	0.02
Cu	Copper	4	4
Fe	Iron	40	40
Mg	Magnesium	-	-
Mn	Manganese	0.55	1.8
Mo	Molybdenum	0.12	0.12
Ni	Nickel	0.14	0.14
Ag	Silver	0.08	0.08
Sn	Tin	100	100
Ti	Titanium	-	-
V	Vanadium	0.01	0.01
Zn	Zinc	5	5
Zr	Zirconium	2 (New)	No requirement

#### Release requirements of impurity elements

Symbol	Name	Second edition SRL[mg/kg]	First Edition SRL[mg/kg]
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As	Arsenic	0.002	0.002
Ba	Barium	1.2	1.2
Be	Beryllium	0.01	0.01
Cd	Cadmium	0.005	0.005
Pb	Lead	0.010	0.010
Li	Lithium	0.048	0.048
Hg	Mercury	0.003	0.003
Tl	Thallium	0.001	0.0001

## 2. Updated test conditions guidance,

Updated the release test guidance to ensure consistency with the testing conditions for kitchenware articles in contact with foodstuffs: plastics metals, silicone & rubber, paper & board(4th Edition, 2023).

## 3. Deleted the Declaration of Conformity section in the first edition

The chapter on the declaration of compliance in the first edition was omitted from the current edition in view of the corresponding guiding principles stated in the Appendix to Resolution CM/Res(2020)9, section 8.2.

### HCT Solution:

Related companies need to focus on the updated requirements for element release, especially the newly added zirconium requirements and the tightened limit for manganese. HCT has a wide range of testing areas and convenient service channels, which can help companies evaluate the regulated special chemical substances in their products, so that your products meet the corresponding national and international standards.

