

National Standard of the People's Republic of China

GB 4806.9-2023

(Unofficial translation)

National Food Safety Standard
Food Contact Metal Materials and Articles

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**Issued by: National Health Commission of the People's Republic of China and State
Administration for Market Regulation**

Preface

This standard replaces GB 4806.9-2016 *National Food Safety Standard - Food Contact Metal Materials and Articles*.

Compared with GB 4806.9-2016, the main changes in this standard are as follows:

- Amended the terms and definitions;
- Amended the requirements for raw materials;
- Amended the physiochemical indexes and added the migration limits of alloy elements;
- Added other technical requirements;
- Removed the specific using requirements;
- Amended the migration tests;
- Amended the labeling requirements;
- Amended the specific requirements for migration tests in Appendix A.

National Food Safety Standard

Food Contact Metal Materials and Articles

1. Scope

This standard is applicable to food contact metal materials and articles.

2. Terms and Definitions

2.1 Food Contact Metal Materials and Articles

All kinds of metal (including various metal plating and alloys) materials and articles that are expected to be or have already been in contact with food under normal conditions of use, hereinafter referred to as “metal materials and articles”.

2.2 Metal Plating

Metal films formed on the surface of solid materials or articles in contact with food by various plating techniques.

2.3 Base Materials

Materials constituting the substrates of metal materials and articles, excluding top coatings and metal plating.

2.4 Alloy Elements

One or more metallic or non-metallic elements intentionally added to meet certain performance requirements, such as tensile strength, hardness, wear resistance, corrosion resistance and electrical conductivity during the smelting of metals.

Metallic alloying elements include aluminum, copper, chromium, manganese, molybdenum, nickel, zinc, tin and cobalt; non-metallic alloying elements include carbon and silicon.

2.5 Impurity Elements

Unintentionally added elements remaining in metals.

3. Basic Requirements

Food contact metal materials and articles shall meet the requirements of GB 4806.1.

4. Technical Requirements

4.1 Requirements for Raw Materials