



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 4806.9-2023

**National Food Safety Standard - Metal Materials and
Products for Food Contact**

食品安全国家标准 食品接触用金属材料及制品

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Foreword

This Standard serves as a replacement of GB 4806.9-2016 *National Food Safety Standard - Food Contact Metal Materials and Articles*.

In comparison with GB 4806.9-2016, the main changes are as follows:

- The terms and definitions are modified;
- The requirements for raw materials are modified;
- The physical and chemical indicators are modified, and alloy element migration limit indicators are added;
- Other technical requirements are added;
- Special use requirements are deleted;
- The migration test is modified;
- The requirements for label identification are modified;
- The special requirements for migration test in Appendix A are modified.

National Food Safety Standard - Metal Materials and Products for Food Contact

1 Scope

This Standard is applicable to metal materials and products for food contact.

2 Terms and Definitions

2.1 Metal Materials and Products for Food Contact

Under normal conditions of use, various metal (including various metal plating and alloys) materials and products that are expected to come into contact with or have come into contact with food. Hereinafter referred to as “metal materials and products”.

2.2 Metal Plating

A metal coating formed on the food-contact surface of a solid material or product through various plating techniques.

2.3 Base Material

A material constituting the matrix of metal materials and products, excluding surface coatings and metal plating.

2.4 Alloy Elements

When smelting metals, one or multiple metallic or non-metallic elements that are intentionally added to achieve certain property requirements (such as: tensile strength, hardness, wear resistance, corrosion resistance and electrical conductivity, etc.).

Metallic alloy elements, such as: aluminum, copper, chromium, manganese, molybdenum, nickel, zinc, tin and cobalt, etc.; non-metallic alloy elements, such as: carbon and silicon, etc.

2.5 Impurity Elements

Unintentionally added elements remaining in a metal.

3 Basic Requirements

The metal materials and products shall comply with the stipulations of GB 4806.1.