



GB 4806.9-2023

National Food Safety Standard Food Contact Metal Materials and Articles

食品安全国家标准 食品接触用金属材料及制品

National Health Commission of the People's
Republic of China
State Administration for Market Regulation of the
People's Republic of China

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Foreword

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 of this standard are as follows:

- the terms and definitions have been revised;
- the raw material requirements have been revised;
- the physicochemical indicators have been revised and the migration limit indicators for alloying elements have been added;
- other technical requirements have been added;
- the special use requirements have been deleted;
- the migration test has been revised;
- the labeling and marking requirements have been revised;
- the special requirements for migration test in Annex A have been revised.

National Food Safety Standard

Food Contact Metal Materials and Articles

1 Scope

This standard applies to food contact metal materials and articles.

2 Terms and Definitions

2.1 Food contact metal materials and articles

Various metal (including metal plating and alloy) materials and articles that are expected to or have been come into contact with food, hereinafter referred to as “metal materials and articles”.

2.2 Metal plating

The metal coating formed on the surfaces of solid materials or articles in contact with food through various plating technologies.

2.3 Base materials

The materials constituting substrates of metal materials and articles, excluding surface coating and metal plating.

2.4 Alloying elements

One or more metal or non-metal elements intentionally added to meet certain performance requirements (such as tensile strength, hardness, wear resistance, corrosion resistance, conductivity, etc.) during metal smelting.

Metal alloying elements include aluminum, copper, chromium, manganese, molybdenum, nickel, zinc, tin, cobalt, etc.; Non-metal alloying elements include carbon, silicon, etc.

2.5 Impurity elements

Unintentionally added elements that remain in metals.

3 Basic Requirements

Metal materials and articles shall comply with the provisions of GB 4806.1.

4 Technical Requirements

4.1 Raw material requirements

4.1.1 Metal base materials, metal plating, and welding materials used in metal materials and articles shall not pose a threat to human health.

4.1.2 Production enterprises of metal materials and articles shall control the used and residual substances in the process of metal surface treatment (such as acid pickling, oxidation,

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