

**National Standard of the People's Republic of China**

**GB 4806.11-2023**

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*(Unofficial translation)*

**National Food Safety Standard  
Food Contact Rubber Materials and  
Articles**

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Market Regulation**

## Preface

This standard replaces the relevant requirements for rubber materials and articles specified in GB 4806.11-2016 *National Food Safety Standard - Food Contact Rubber Materials and Articles*, and the base materials for rubber in the former National Health and Family Planning Commission (NHFPC) Notice No. 14, 2013, No. 14, 2014, No. 5, 2016 and No. 7, 2016, and National Health Commission (NHC) Notice No. 4, 2020.

Compared with the standards and notices above, the main changes in this standard are as follows:

- Amended the applicable scope;
- Amended the terms and definitions;
- Amended the requirements for raw materials;
- Amended the physiochemical indexes;
- Added other technical requirements;
- Added the migration tests requirements ;
- Amended Appendix A.

# National Food Safety Standard

## Food Contact Rubber Materials and Articles

### 1. Scope

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

### 2. Terms and Definitions

#### 2.1 Food Contact Rubber Materials and Articles

Materials and articles mainly made of natural rubber, synthetic rubber or vulcanized thermoplastic elastomers, which have been or are intended to come into contact with food or food additives or whose components may be transferred to food under normal conditions of use.

### 3. Basic Requirements

Food contact rubber materials and articles shall comply with the requirements of GB 4806.1.

### 4. Technical Requirements

#### 4.1 Requirements for Raw Materials

4.1.1 Basic raw materials of natural rubber, synthetic rubber and silicone rubber used in food contact rubber materials and articles shall meet the requirements of Appendix A hereof and relevant notices; and the use of vulcanized thermoplastic elastomer shall comply with Appendix A of GB 4806.7-2023 and relevant notices.

4.1.2 The use of additives in food contact rubber materials and articles shall meet the requirements of GB 9685 and relevant notices.

#### 4.2 Sensory Requirements

The sensory requirements for food contact rubber materials and articles shall meet the requirements specified in Table 1.

**Table 1 Sensory requirements**

Items	Requirements
Sample senses	The color is normal, has no strange smell or contamination.
Soaking solution	There should be no obvious coloring, turbidity, precipitation or odor, etc.

#### 4.3 Physicochemical Indexes