NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

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GB 4806.16-2025

National Food Safety Standards - Silicone Rubber Materials and Products for Food Contact

食品安全国家标准 食品接触用硅橡胶材料及制品

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Foreword

This Standard serves as a replacement for GB 4806.11-2016 *National Food Safety Standard - Food Contact Rubber Materials and Articles* regarding the relevant requirements for silicone rubber materials and products.

In comparison with the above-mentioned standard, the main technical changes are as follows:

---The Scope is modified;

---The terms and definitions are modified;

---The requirements for raw materials are modified;

---The sensory requirements are modified;

---The physical and chemical indicators are modified, and volatile substances are added;

---Other technical requirements are added;

---The migration test requirements are modified;

---The requirements for label identification are modified;

---Appendix A is modified;

---Appendix B - Determination of Volatile Substances is added.

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National Food Safety Standard – Silicone Rubber Materials and Products for Food Contact

1 Scope

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

2 Terms and Definitions

2.1 Silicone Rubber Materials and Products for Food Contact

Under the intended use conditions, materials and products primarily made from organosilicon elastomers formed by the cross-linking and curing reaction of polysiloxane polymers and hydrophobic silica, which have come into or may come into contact with food or food additives, or whose components may transfer into food.

3 Basic Requirements

Silicone rubber materials and products for food contact shall comply with the provisions of GB 4806.1.

4 Technical Requirements

4.1 Requirements for Raw Materials

4.1.1 The use of basic raw materials for silicone rubber materials and products for food contact shall comply with the provisions of Appendix A and relevant announcements.

4.1.2 The use of additives in silicone rubber materials and products for food contact shall comply with the provisions of GB 9685 and relevant announcements.

4.2 Sensory Requirements

The sensory requirements for silicone rubber materials and products for food contact shall comply with the provisions of Table 1.

Table 1 -- Sensory Requirements

Item	Requirements
Senses	Normal color, no unusual odor or impurities
Immersion solution	The immersion solution obtained from the migration test shall not exhibit any deterioration in sensory properties, such as discoloration, turbidity, precipitation and unusual odor

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