



GB 1886.359-2022

National Food Safety Standard

Food Additive Gum Base and Its Ingredients

食品安全国家标准 食品添加剂 胶基及其配料

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

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Foreword

This standard replaces GB 29987-2014 "National Food Safety Standard Food Additive Gum Base and Its Ingredients" and GB 29947-2013 "National Food Safety Standard Food Additive Terpene Resin".

Compared with GB 29987-2014, the main changes of this standard are as follows:

- the definitions of gum base and gum base ingredients have been revised;
- the Chapter 3 "Basic Requirements" has been revised and section 3.5 has been added;
- the test methods for total arsenic and lead have been added;
- the list of ingredients allowed for use in gum base in Annex A has been revised:
 - a) the hydrogenated vegetable oil and cocoa powder have been deleted from Table A.1;
 - b) the Chinese names of glycerol ester of polymerized rosin (gum, wood, tall oil) and microcrystalline wax in Table A.1 have been revised;
 - c) the Chinese and English names of octyl and decyl glycerate, silicon dioxide, and tricalcium orthophosphate (calcium phosphate) have been added in Table A.1;
 - d) the food raw materials and their regulations have been added in Table A.1.
- the Annex C "Synthetic rubbers allowed for use in gum base ingredients" has been revised:
 - a) the relative molecular mass of polyethylene has been revised;
 - b) the production process description of polyisobutylene has been revised;
 - c) the production process description of isobutylene-isoprene copolymer (butyl rubber) has been revised.
- the Annex D "Resins allowed for use in gum base ingredients" has been revised:
 - a) the production process description of synthetic resin (synthetic terpene resin) has been revised;

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b) the Gardner colour scale and residual limit of toluene have been added to the physicochemical indicators in Table D.5;

c) the name of glycerol ester of polymerized rosin (gum, wood, tall oil) has been revised;

d) the regulations for pentaerythritol ester of rosin (gum, wood, tall oil) to comply with have been revised.

——the Annex E "Waxes allowed for use in gum base ingredients" has been revised:

a) the standards for carnauba wax and beeswax to comply with have been revised;

b) the standards for paraffin to comply with have been revised;

c) the name of microcrystalline wax has been revised.

——the Annex F "Emulsifiers & softeners allowed for use in gum base ingredients" has been revised:

a) the standards for mono- and diglycerides of fatty acids, sodium alginate, acetylated mono- and diglyceride (acetic and fatty acid esters of glycerol), stearic acid, calcium stearate, magnesium stearate, potassium stearate, and sucrose esters of fatty acid to comply with have been revised;

b) the test methods for acid value in physicochemical indicators in F.5 and F.6 have been revised;

c) the octyl and decyl glycerate and its requirements have been added.

——the standards for benzoic acid, sodium benzoate, butylated hydroxyanisole, propyl gallate, sorbic acid, potassium sorbate, and vitamin E (dl- α -tocopherol, d- α -tocopherol, mixed tocopherol concentrate) in Annex G to comply with have been revised.

——the Annex H "Filling agents allowed for use in gum base ingredients" has been revised:

a) the standards for talc, calcium hydrogen phosphate (dicalcium orthophosphate), and calcium carbonate (light, heavy) to comply with have been revised;

b) the silicon dioxide and its requirements have been added;

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c) the tricalcium orthophosphate (calcium phosphate) and its requirements have been added.

——the drying oven method for determination of volatile substances in Annex I has been revised.

National Food Safety Standard

Food Additive Gum Base and Its Ingredients

1 Scope

This standard applies to gum base and gum base ingredients.

2 Terms and Definitions

2.1 Gum base

It refers to the chewing gum base made by compounding rubbers and/or resins and other gum base ingredients for production of gum-based candies, giving them chewiness and/or foamability, not for the purpose of providing nutrition.

2.2 Gum base ingredients

It is a general term for natural rubbers, synthetic rubbers, resins, waxes, emulsifiers, softeners, antioxidants, preservatives, filling agents used for producing gum base, and food raw materials used as gum base ingredients.

3 Basic Requirements

3.1 The gum base shall be compounded from the gum base ingredients listed in Annex A.

3.2 The quality specifications of natural rubbers, synthetic rubbers, resins, and waxes among the gum base ingredients shall comply with the corresponding provisions of Annexes B to E.

3.3 The quality specifications of emulsifiers and softeners among gum base ingredients shall comply with the corresponding provisions of Annex F.

3.4 The quality specifications of antioxidants, preservatives, and filling agents among the gum base ingredients shall comply with the corresponding provisions of Annexes G and H.

3.5 The food raw materials used as gum base ingredients shall comply with the corresponding standards.

4 Technical Requirements for Gum Base

4.1 Sensory requirements

The sensory requirements shall comply with the provisions of Table 1.

Table 1 Sensory requirements

Items	Requirements	Test methods
Odor & state	No foreign odor, no decomposition or mildew, no foreign impurities visible by normal eyesight	Take an appropriate amount of the test sample and place in a colorless and transparent container or a white porcelain plate, and then observe its state and color against a bright background, and smell it at room temperature.

4.2 Physicochemical indicators

The physicochemical indicators shall comply with the provisions of Table 2.

Table 2 Physicochemical indicators

Items	Indicators	Test methods
Total arsenic (as As)/(mg/kg) ≤	1.5	GB 5009.11 or GB 5009.76
Lead (Pb)/(mg/kg) ≤	1.5	GB 5009.12 or GB 5009.75

5 Labeling

5.1 The list of gum base ingredients shall indicate the group names of the ingredients (including food raw materials) used for production of gum base, such as natural rubbers, synthetic rubbers, resins, waxes, emulsifiers, softeners, antioxidants, preservatives, and filling agents, and may not indicate the specific names.

5.2 Except for the list of ingredients, the labeling of gum base and gum base ingredients shall follow the requirements of GB 29924; The gum base may not be labeled with the words "food additive".

Annex A

List of gum base ingredients allowed for use in gum base

The gum base ingredients allowed for use in gum base are shown in Table A.1. The usage amounts of various ingredients shall comply with the relevant regulations, and those whose usage amounts are not specified shall be used appropriately as per production needs.

Table A.1 List of gum base ingredients allowed for use in gum base

Chinese name/group	English name
A1 天然橡胶	Natural gum
1 巴拉塔树胶	Massaranduba balata
2 节路顿胶	Jelutong
3 来开欧胶	Leche caspi (sorva)
4 茛茨棕树胶	Chiquibul
5 糖胶树胶	Chicle
6 天然橡胶 (乳胶固形物)	Natural rubber (latex solids)
A2 合成橡胶	Synthetic rubber
1 丁二烯-苯乙烯75/25、50/50橡胶 (丁苯橡胶)	Butadiene-styrene rubber 75/25, 50/50 (SBR)
2 聚丁烯	Polybutylene
3 聚乙烯	Polyethylene
4 聚异丁烯	Polyisobutylene
5 异丁烯-异戊二烯共聚物 (丁基橡胶)	Isobutylene-isoprene copolymer (butyl rubber)
A3 树脂	Resin
1 部分二聚松香 (包括松香、木松香、妥尔松香) 甘油酯	Glycerol ester of partially dimerized rosin (gum, wood, tall oil)
2 部分氢化松香 (包括松香、木松香、妥尔松香) 甘油酯	Glycerol ester of partially hydrogenated rosin (gum, wood, tall oil)
3 部分氢化松香 (包括松香、木松香、妥尔松香) 季戊四醇酯	Pentaerythritol ester of partially hydrogenated rosin (gum, wood, tall oil)
4 部分氢化松香 (包括松香、木松香、妥尔松香) 甲酯	Methyl ester of partially hydrogenated rosin (gum, wood, tall oil)
5 醋酸乙烯酯-月桂酸乙烯酯共聚物	Vinyl acetate-vinyl laurate copolymer
6 合成树脂 (包括萜烯树脂)	Synthetic resin (synthetic terpene resin)
7 聚醋酸乙烯酯	Polyvinyl acetate (PVA)
8 聚合松香 (包括松香、木松香、妥尔松香) 甘油酯	Glycerol ester of polymerized rosin (gum, wood, tall oil)
9 木松香甘油酯	Glycerol ester of wood rosin



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