

CODEX ALIMENTARIUS

INTERNATIONAL FOOD STANDARDS



Food and Agriculture
Organization of
the United Nations



World Health
Organization

E-mail: codex@fao.org - www.codexalimentarius.org

STANDARD FOR A BLEND OF SWEETENED CONDENSED SKIMMED MILK AND VEGETABLE FAT

CXS 252-2006

Adopted in 2006. Amended in 2010, 2018, 2021.

1. SCOPE

This Standard applies to a blend of sweetened condensed skimmed milk and vegetable fat, intended for direct consumption, or further processing, in conformity with the description in Section 2 of this Standard.

2. DESCRIPTION

A blend of sweetened condensed skimmed milk and vegetable fat is a product prepared by recombining milk constituents and potable water, or by the partial removal of water, with the addition of sugar and with the addition of edible vegetable oil, edible vegetable fat or a mixture thereof to meet the compositional requirements in Section 3 of this Standard.

3. ESSENTIAL COMPOSITION AND QUALITY FACTORS

3.1 Raw materials

Skimmed milk and skimmed milk powders¹, other non-fat milk solids, and edible vegetable fats/oils¹.

The following milk products are allowed for protein adjustment purposes:

- Milk retentate: Milk retentate is the product obtained by concentrating milk protein by ultra-filtration of milk, partly skimmed milk, or skimmed milk;
- Milk permeate: Milk permeate is the product obtained by removing milk protein and milk fat from milk, partly skimmed milk, or skimmed milk by ultra-filtration; and
- Lactose¹ (Also for seeding purposes)

3.2 Permitted ingredients

- Potable water
- Sugar
- Sodium chloride and/or potassium chloride as salt substitute

In this product, sugar is generally considered to be sucrose, but a combination of sucrose with other sugars, consistent with Good Manufacturing Practice, may be used.

3.3 Permitted nutrients

Where allowed in accordance with the *General Principles for the Addition of Essential Nutrients to Food* (CXG 9-1987), maximum and minimum levels for Vitamins A, D and other nutrients, where appropriate, should be laid down by national legislation in accordance with the needs of individual country including, where appropriate, the prohibition of the use of particular nutrients.

3.4 Composition

Blend of sweetened condensed skimmed milk and vegetable fat

Minimum total fat	8% m/m
Minimum milk solids-not-fat ^(a)	20% m/m
Minimum milk protein in milk solids-not-fat ^(a)	34% m/m

Reduced fat blend of sweetened condensed skimmed milk and vegetable fat

Total fat	More than 1% and less than 8% m/m
Minimum milk solids-not-fat ^(a)	20% m/m
Minimum milk protein in milk solids-not-fat ^(a)	34% m/m

^(a) The milk solids-not-fat content includes water of crystallization of the lactose.

For a blend of sweetened condensed skimmed milk and vegetable fat the amount of sugar is restricted by Good Manufacturing Practice to a minimum value which safeguards the keeping quality of the product and a maximum value above which crystallization of sugar, may occur.

¹ For specification, see relevant Codex Standard.

4. FOOD ADDITIVES

Only those additive classes indicated as justified in the table below may be used for the product categories specified.

Acidity regulators used in accordance with Tables 1 and 2 of the *General Standard for Food Additives* (CXS 192-1995) in food category 01.3.2 (Beverage whiteners), and only certain acidity regulators, emulsifiers, stabilizers and thickeners in Table 3 are acceptable for use in foods conforming to this Standard.

Additive functional class	Justified use
Colours	-
Bleaching agents	-
Acidity regulators	X
Stabilizers	X
Thickeners	X
Emulsifiers	X
Antioxidants	-
Preservatives	-
Foaming agents	-
Anticaking agents	-
Packaging gas	-

X The use of additives belonging to the class is technologically justified.

– The use of additives belonging to the class is not technologically justified.

5. CONTAMINANTS

The products covered by this Standard shall comply with the maximum levels for contaminants that are specified for the product in the *General Standard for Contaminants and Toxins in Food and Feed* (CXS 193-1995).

The milk used in the manufacture of the products covered by this Standard shall comply with the maximum levels for contaminants and toxins specified for milk by the *General Standard for Contaminants and Toxins in Food and Feed* (CXS 193-1995) and with the maximum residue limits for veterinary drug residues and pesticides established for milk by the CAC.

The vegetable oils/fat used in the manufacture of the products covered by this Standard shall comply with the Maximum Levels for contaminants and toxins specified for the oils/fats by the *General Standard for Contaminants and Toxins in Food and Feed* (CXS 193-1995) and with the maximum residue limits for pesticides established for the oils/fats by the CAC.

6. HYGIENE

It is recommended that the products covered by the provisions of this Standard be prepared and handled in accordance with the appropriate sections of the *General Principles of Food Hygiene* (CXC 1-1969), the *Code of Hygienic Practice for Milk and Milk Products* (CXC 57-2004) and other relevant Codex texts such as Codes of Hygienic Practice and Codes of Practice. The products should comply with any microbiological criteria established in accordance with the *Principles and Guidelines for the Establishment and Application of Microbiological Criteria Related to Foods* (CXG 21-1997).

7. LABELLING

In addition to the provisions of the *General Standard for the Labelling of Prepackaged Foods* (CXS 1-1985) the following specific provisions apply:

7.1 Name of the food

The name of the food shall be:

- Blend of Sweetened Condensed Skimmed Milk and Vegetable Fat; or
- Reduced Fat Blend of Sweetened Condensed Skimmed Milk and Vegetable Fat

Other names may be used if allowed by national legislation in the country of retail sale.

7.2 Declaration of total fat content

The total fat content shall be declared in a manner found acceptable in the country of sale to the final consumer, either (i) as a percentage by mass or volume, or (ii) in grams per serving as quantified in the label provided that the number of servings is stated.

A statement shall appear on the label as to the presence of edible vegetable fat and/or edible vegetable oil. When required by the country of retail sale, the common name of the vegetable from which the fat or oil is derived shall be included in the name of the food or as a separate statement.

7.3 Declaration of milk protein

The milk protein content shall be declared in a manner acceptable in the country of sale to the final consumer, either (i) as a percentage by mass or volume, or (ii) in grams per serving as quantified in the label provided that the number of servings is stated.

7.4 List of ingredients

Notwithstanding the provision of Section 4.2.1 of the *General Standard for the Labelling of Prepackaged Foods* (CXS 1-1985) milk products used only for protein adjustment need not be declared.

7.5 Advisory statement

A statement shall appear on the label to indicate that the product should not be used as a substitute for infant formula. For example, "NOT SUITABLE FOR INFANTS".

8. METHODS OF ANALYSIS AND SAMPLING

For checking the compliance with this Standard, the methods of analysis and sampling contained in the *Recommended Methods of Analysis and Sampling* (CXS 234-1999) relevant to the provisions in this Standard, shall be used.