# CODEX STANDARD FOR CREAM CHEESE

**CODEX STAN 275-1973** 

## 1. SCOPE

This Standard applies to Cream Cheese intended for direct consumption or for further processing in conformity with the description in Section 2 of this Standard.

In some countries, the term "cream cheese" is used to designate cheeses, such as high fat ripened hard cheese, that do not conform to the description in Section 2. This Standard does not apply to such cheeses.

#### 2. DESCRIPTION

Cream Cheese is a soft, spreadable, unripened and rindless¹ cheese in conformity with the Standard for Unripened Cheeses Including Fresh Cheeses (CODEX STAN 221-2001) and the General Standard for Cheese (CODEX STAN 283-1978). The cheese has a near white through to light yellow colour. The texture is spreadable and smooth to slightly flaky and without holes, and the cheese spreads and mixes readily with other foods.

# 3. ESSENTIAL COMPOSITION AND QUALITY FACTORS

#### 3.1 Raw materials

Milk and/or products obtained from milk.

#### 3.2 Permitted ingredients

- Starter cultures of harmless lactic acid and/ or flavour producing bacteria and cultures of other harmless micro-organisms
- Rennet or other safe and suitable coagulating enzymes
- Sodium chloride and potassium chloride as a salt substitute
- Potable water
- Safe and suitable processing aids
- Gelatine and starches: These substances can be used in the same function as stabilizers, provided they are added only in amounts functionally necessary as governed by Good Manufacturing Practice taking into account any use of the stabilizers/thickeners listed in section 4
- Vinegar.

<sup>&</sup>lt;sup>1</sup> The cheese has been kept in such a way that no rind is developed (a "rindless" cheese).

# 3.3 Composition

Milk constituent	Minimum content (m/m)	Maximum content (m/m)	Reference level (m/m)
Milk fat in dry matter:	25%	Not restricted	60–70%
Moisture on fat free basis:	67%	-	Not specified
Dry matter:	22%	Restricted by the MFFB	Not specified

Compositional modifications of Cream Cheese beyond the minima and maxima specified above for milkfat, moisture and dry matter are not considered to be in compliance with section 4.3.3 of the General Standard for the Use of Dairy Terms (CODEX STAN 206-1999).

## 4. FOOD ADDITIVES

Only those additives classes indicated as justified in the table below may be used for the product categories specified. Within each additive class, and where permitted according to the table, only those food additives listed below may be used and only within the functions and limits specified.

Addition formational along	Justified use		
Additive functional class	Cheese mass	Surface/rind treatment	
Colours:	X <sup>(a)</sup>	-	
Bleaching agents:	_	_	
Acidity regulators:	Х	_	
Stabilizers:	X(p)	_	
Thickeners:	X(p)	_	
Emulsifiers:	X	_	
Antioxidants:	X	_	
Preservatives:	X(p)		
Foaming agents:	X <sup>(c)</sup>	_	
Anticaking agents:	_		

- (a) Only to obtain the colour characteristics, as described in Section 2.
- (b) Stabilizers and thickeners including modified starches may be used in compliance with the definition of milk products and only to heat treated products to the extent they are functionally necessary, taking into account any use of gelatine and starches as provided for in section 3.2.
- (c) For whipped products, only.
- X The use of additives belonging to the class is technologically justified.
   The use of additives belonging to the class is not technologically justified.

INS no.	Name of additive	Maximum level
Preservati	ves	
200	Sorbic acid	
201	Sodium sorbate	1 000 mg/kg – singly or in combination
202	Potassium sorbate	as sorbic acid
203	Calcium sorbate	_
234	Nisin	12.5 mg/kg
280	Propionic acid	٦
281	Sodium propionate	<ul> <li>Limited by GMP</li> </ul>
282	Calcium propionate	Limited by Givii
283	Potassium propionate	
Acidity re	gulators	
170(i)	Calcium carbonate	Limited by GMP
260	Acetic acid, glacial	Limited by GMP
261(i)	Potassium acetate	Limited by GMP
261(ii)	Potassium diacetate	Limited by GMP
262(i)	Sodium acetate	Limited by GMP
263	Calcium acetate	Limited by GMP
270	Lactic acid, L-, D- and DL-	Limited by GMP
296	Malic acid, DL-	Limited by GMP
325	Sodium lactate	Limited by GMP
326	Potassium lactate	Limited by GMP
327	Calcium lactate	Limited by GMP
330	Citric acid	Limited by GMP
331(i)	Sodium dihydrogen citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
333	Calcium citrates	Limited by GMP
334	Tartaric acid L(+)-	٦
335(i)	Monosodium tartrate	
335(ii)	Sodium L(+)-tartrate	1 500 mg/kg – singly or in combination
336(i)	Monopotassium tartrate	as tartaric acid
336(ii)	Dipotassium tartrate	
337	Potassium sodium L(+)-tartrate	_
338	Phosphoric acid	880 mg/kg as phosporous
350(i)	Sodium hydrogen DL-malate	Limited by GMP
350(ii)	Sodium DL-malate	Limited by GMP
351(i)	Potassium hydrogen malate	Limited by GMP
351(ii)	Potassium malate	Limited by GMP
352(ii)	Calcium malate, D, L-	Limited by GMP
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonate	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
504(i)	Magnesium carbonate	Limited by GMP
504(ii)	Magnesium hydrogen carbonate	Limited by GMP

INS no.	Name of additive	Maximum level
507	Hidrochloric acid	Limited by GMP
575	Glucono-delta-lactone	Limited by GMP
577	Potassium gluconate	Limited by GMP
578	Calcium gluconate	Limited by GMP
Stabilizers		
339(i)	Sodium dihydrogen phosphate	
339(ii)	Disodium hydrogen phosphate	
339(iii)	Trisodium phosphate	
340(i)	Potassium dihydrogen phosphate	
340(ii)	Dipotassium hydrogen phosphate	
340(iii)	Tripotassium phosphate	
341(i)	Calcium dihydrogen phosphate	
341(ii)	Calcium hydrogen phosphate	
341(iii)	Tricalcium phosphate	
342(i)	Ammonium dihydrogen phosphate	
342(ii)	Diammonium hydrogen phosphate	4 400 mg/kg
343(ii)	Magnesium hydrogen phosphate	singly or in combination,
343(iii)	Trimagnesium phosphate	expressed as phosphorus
450(i)	Disodium diphosphate	
450(iii)	Tetrasodium diphosphate	
450(v)	Tetrapotassium diphosphate	
450(vi)	Dicalcium diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iv)	Calcium polyphosphate	
452(v)	Ammonium polyphosphate	
400	Alginic acid	Limited by GMP
401	Sodium alginate	Limited by GMP
402	Potassium alginate	Limited by GMP
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
405	Propylene glycol alginate	5 000 mg/kg
406	Agar	Limited by GMP
407	Carrageenan	Limited by GMP
407a	Processed euchema seaweed (PES)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
418	Gellan gum	Limited by GMP
466	Sodium carboxymethyl cellulose (Cellulose gum)	Limited by GMP

INS no.	Name of additive	Maximum level
1400	Dextrins, roasted starch	Limited by GMP
1401	Acid-treated starch	Limited by GMP
1402	Alkaline treated starch	Limited by GMP
1403	Bleached starch	Limited by GMP
1404	Oxidized starch	Limited by GMP
1405	Starches, enzyme-treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1412	Distarch phosphate	Limited by GMP
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch Acetate	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP
Emulsifiers		
322	Lecithins	Limited by GMP
470(i)	Salt of myristic, palmitic and stearic acids wit ammonia, calcium, potassium and sodium	Limited by GMP
470(ii)	Salt of oleic acid with calcium, potassium and sodium	Limited by GMP
471	Mono- and di-glycerides of fatty acids	Limited by GMP
472a	Acetic and fatty acid esters of glycerol	Limited by GMP
472b	Lactic and fatty acid esters of glycerol	Limited by GMP
472c	Citric and fatty acid esters of glycerol	Limited by GMP
472e	Diacetyltartaric and fatty acid esters of glycero	l 10 000 mg/kg
Antioxidan	ts	
300	Ascorbic acid, L-	Limited by GMP
301	Sodium ascorbate	Limited by GMP
302	Calcium ascorbate	Limited by GMP
304	Ascorbyl palmitate	500 mg/kg
305	Ascorbyl stearate	singly or in combination as ascorbyl stearate
307b 307c	Tocopherol concentrate, mixed Tocopherol, dl-alpha-	_ 200 mg/kg singly or in combination
Colours	Constant but and "	
160a(i)	Carotene, beta-, synthetic	
160a(iii)	Carotene, beta-, Blakeslea trispora	35 mg/kg singly or in combination
160e	Carotenal, beta-apo-8'-	singly of in combination
160f	Carotenoic acid, ethyl ester, beta-apo-8'-	600
160a(ii)	Carotenes, <i>beta</i> -, vegetable	600 mg/kg
160b(ii) 171	Annatto extracts – norbixin-based Titanium dioxide	25 mg/kg Limited by GMP
		Zimited by Givil
Foaming ag		
290	Carbon dioxide	Limited by GMP
941	Nitrogen	Limited by GMP

### 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* (CODEX STAN 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* (CODEX STAN 193-1995) and with the maximum residue limits for veterinary drug residues and pesticides established for milk by the CAC.

### 6. HYGIENE

It is recommended that the product covered by the provisions of this standard be prepared and handled in accordance with the appropriate sections of the *General Principles of Food Hygiene* (CAC/RCP 1-1969), *Code of Hygienic Practice for Milk and Milk Products* (CAC/RCP 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 for the Establishment and Application of Microbiological Criteria for Foods* (CAC/GL 21-1997).

#### 7. LABELLING

In addition to the provisions of the *General Standard for the Labelling of Prepackaged Foods* (CODEX STAN 1-1985) and the *General Standard for the Use of Dairy Terms* (CODEX STAN 206-1999), the following specific provisions apply:

#### 7.1 Name of the food

The name Cream Cheese may be applied in accordance with section 4.1 of the *General Standard for the Labelling of Prepackaged Foods* (CODEX STAN 1-1985), provided that the product is in conformity with this Standard. Where customary in the country of retail sale, alternative spelling may be used. The name may be translated into other languages so that the consumer in the country of retail sale will not be mislead.

The use of the name is an option that may be chosen only if the cheese complies with this standard. Where the name is not used for a cheese that complies with this standard, the naming provisions of the *General Standard for Cheese* (CODEX STAN 283-1978) apply.

The designation of products in which the fat content is below or above the reference range but equal to or above 40% fat in dry matter as specified in section 3.3 of this Standard shall be accompanied by an appropriate qualification describing the modification made or the fat content (expressed as fat in dry matter or as percentage by mass whichever is acceptable in the country of retail sale), either as part of the name or in a prominent position in the same field of vision. The designation of products in which the fat content is below 40% fat in dry matter but above the absolute minimum specified in section 3.3 of this Standard shall either be accompanied by an appropriate

qualifier describing the modification made or the fat content (expressed as fat in dry matter or as percentage by mass), either as part of the name or in a prominent position in the same field of vision, or alternatively the name specified in the national legislation of the country in which the product is manufactured and/or sold or with a name existing by common usage, in either case provided that the designation used does not create an erroneous impression the retail sale regarding the character and identity of the cheese.

Suitable qualifiers are the appropriate characterizing terms specified in Section 7.3 of the *General Standard for Cheese* (CODEX STAN 283-1978) or a nutritional claim in accordance with the *Guidelines for the Use of Nutritional Claims* (CAC/GL 23-1997)<sup>2</sup>.

## 7.2 Country of origin

The country of origin (which means the country of manufacture, not the country in which the name originated) shall be declared. When the product undergoes substantial transformation<sup>3</sup> in a second country, the country in which the transformation is performed shall be considered to be the country of origin for the purpose of labelling.

#### 7.3 Declaration of milkfat content

The milk fat content shall be declared in a manner found acceptable in the country of retail sale, either (i) as a percentage by mass, (ii) as a percentage of fat in dry matter, or (iii) in grams per serving as quantified in the label, provided that the number of servings is stated.

#### 7.4 Labelling of non-retail containers

Information specified in Section 7 of this Standard and Sections 4.1 to 4.8 of the *General Standard for the Labelling of Prepackaged Foods* (CODEX STAN 1-1985) and, if necessary, storage instructions, shall be given either on the container or in accompanying documents, except that the name of the product, lot identification, and the name of the manufacturer or packer shall appear on the container, and in the absence of such a container, on the product itself. However, lot identification and the name and address may be replaced by an identification mark, provided that such mark is clearly identifiable with the accompanying documents.

# 8. METHODS OF SAMPLING AND ANALYSIS

See CODEX STAN 234-1999.

<sup>&</sup>lt;sup>2</sup> For the purpose of comparative nutritional claims, the minimum fat content of 60 % fat in dry matter constitutes the reference.

<sup>&</sup>lt;sup>3</sup> For instance, repackaging, cutting, slicing, shredding and grating is not regarded as substantial transformation.