

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية GCC STANDARDIZATION ORGANIZATION (GSO)

مشروع مواصفة نهائي
Final Draft of Standard FDS

إعداد اللجنة الخليجية رقم TC05

Prepared by GSO Technical Committee No. TC05

تبنى

GSO 05/FDS/ 832:2020
GSO 832/2010
GSO 832/2010/Cor 1:2014

مواصفة جبن القشدة
Standard of cream cheese

ICS: 67.100.30

This document is a draft Gulf Standard/Technical Regulation circulated for comments. It is, therefore, subject to alteration and modification and may not be referred to as a Gulf Standard/Technical Regulation until approved by GSO.

هذه الوثيقة مشروع مواصفة قياسية /لائحة فنية خليجية تم توزيعها لإبداء الملحوظات بشأنها، لذلك فإنها عرضة للتغيير والتبديل، ولا يجوز الرجوع إليها كمواصفة قياسية/لائحة فنية خليجية إلا بعد اعتمادها من الهيئة.

Foreword

The Gulf Cooperation Council Standardization Organization for the Arab States of the Gulf is a regional body whose membership includes national standardization bodies in member countries. One of the tasks of the organization is to prepare Gulf standards and technical regulations by specialized technical committees.

The Board of Directors of the Gulf Cooperation Council Standardization Organization decided in its meeting No. () held on // AH, corresponding to // AD to approve the update of the Gulf Technical Regulations (GSO 05 / FDS / 832: 2020 specification of cream cheese) in the language (Arabic and English) with technical adjustments made to it within a work program Gulf Technical Committee No. TC05 "Gulf Technical Committee for Food and Agricultural Specifications" included in the plan of the State of Kuwait.

The text (English) is considered the main reference in the event of a difference between the two texts.

تقديم

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية هيئة إقليمية تضم في عضويتها أجهزة التقييس الوطنية في الدول الأعضاء، ومن مهام الهيئة إعداد المواصفات القياسية واللوائح الفنية الخليجية بواسطة لجان فنية متخصصة.

قرر مجلس إدارة هيئة التقييس لدول مجلس التعاون لدول الخليج العربية في اجتماعه رقم () الذي عقد بتاريخ / / هـ ، الموافق / / م اعتماد تحديث اللائحة الفنية الخليجية رقم (GSO 05/FDS/ 832:2020) مواصفة جبن القشدة باللغة (العربية والإنجليزية) ضمن برنامج عمل اللجنة الفنية الخليجية رقم TC05 "اللجنة الفنية الخليجية للمواصفات الغذائية والزراعية" المدرجة في خطة دولة الكويت. ويعتبر النص (الإنجليزي) هو المرجع الأساس في حال وجود اختلاف بين النصين.

1. SCOPE

This Standard applies to Cream Cheese intended for direct consumption or for further processing in conformity with the description in Section (3) 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 (3). This Standard does not apply to such cheeses.

2. COMPLEMENTARY REFERENCES

- 2.1** GSO 9 “Labeling of prepackaged food stuffs”.
- 2.2** GSO 21 “Hygienic regulations for food plants and their personnel”.
- 2.3** GSO 150 “Expiration dates for food products”
- 2.4** GSO 168 “REQUIREMENTS OF STORAGE FACILITIES FOR DRY AND CANNED FOODSTUFFS”
- 2.5** GSO 171 “METHODS FOR THE CHEMICAL ANALYSIS OF CHEESE”
- 2.6** GSO 179 “METHODS OF MICROBIOLOGICAL EXAMINATION OF CHEESE”
- 2.7** GSO 323 “General requirements for transportation and storage of chilled and frozen foods.”
- 2.8** GSO 382 “Maximum limits for pesticide residues in agricultural food products”
- 2.9** GSO 569 “Methods for sampling milk and milk products.”
- 2.10** GSO 839 “Food Packages - Part 1: General Requirements”
- 2.11** GSO 988 “Limits Of Radionativity Levels Permitted In Foods Stuff Part – 1”
- 2.12** GSO 998 “METHOD FOR DETECTION OF PERMISSIBLE RADIONUCLIDES LIMITS IN FOOD PART 1: GAMMA SPECTROMETRY ANALYSIS A – Cs – 134, Cs – 137””
- 2.13** GSO 1016 “Microbiological Criteria for Foodstuffs”
- 2.14** GSO 1863 “Food packages - Part 2: Plastic package - General requirements”

- 2.15** GSO/CAC 193 “General Standard for contaminants & toxins in food”
- 2.16** GSO 2481 “Maximum Residues Limits (Mrls) of Veterinary Drugs In Food”
- 2.17** GSO 2000 “Standard of Cheese”
- 2.18** GSO 2214 “Code of hygienic practice for milk and milk products”
- 2.19** GSO 2500 “Additives Permitted for Use in Food Stuffs”

3. DESCRIPTION

Cream Cheese is a soft, spreadable, unripened and rindless¹ cheese .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.

4. ESSENTIAL COMPOSITION AND QUALITY FACTORS

4.1 Raw materials

Milk and/or products obtained from milk.

4.2 Permitted ingredients

- 4.2.1 Starter cultures of harmless lactic acid and/ or flavor producing bacteria and cultures of other harmless micro-organisms.
- 4.2.2 Rennet or other safe and suitable coagulating enzymes.
- 4.2.3 Sodium chloride and potassium chloride as a salt substitute.
- 4.2.4 Potable water.
- 4.2.5 Safe and suitable processing aids.
- 4.2.6 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 (5).

¹ The cheese has been kept in such a way that no rind is developed (a “rindless” cheese).

4.2.7 Vinegar.

4.3 Composition

Table number (1)

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 the General Standard for the Use of Dairy Terms.

5. 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.

Additive functional class	Justified use	
	Cheese mass	Surface/rind treatment
Colours:	X(a)	–
Bleaching agents:	–	–
Acidity regulators:	X	–
Stabilizers:	X(b)	–
Thickeners:	X(b)	–
Emulsifiers:	X	–
Antioxidants:	X	–
Preservatives:	X(b)	–
Foaming agents:	X(c)	–
Anticaking agents:	–	–

- (a) Only to obtain the colour characteristics, as described in Section (3).
- (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 (4.2).
- (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
Preservatives		
200	Sorbic acid	1 000 mg/kg singly or in combination as sorbic acid
202	Potassium sorbate	
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
280	Propionic acid	Limited by GMP
281	Sodium propionate	
282	Calcium propionate	
283	Potassium propionate	
Acidity regulators		
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

INS no.	Name of additive	Maximum level
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(+)-	1500 mg/kg singly or in combination as tartaric acid
335(ii)	Sodium L(+)-tartrate	
337	Potassium sodium L(+)-tartrate	
338	Phosphoric acid	880 mg/kg as phosphorous
350(i)	Sodium hydrogen DL-malate	Limited by GMP
350(ii)	Sodium DL-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
507	Hydrochloric 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	4 400 mg/kg singly or in combination, expressed as phosphorus
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 orthophosphate	
342(i)	Ammonium dihydrogen phosphate	
342(ii)	Diammoniumhydrogen phosphate	
343(ii)	Magnesium hydrogen phosphate	

INS no.	Name of additive	Maximum level
343(iii)	Trimagnesium phosphate	
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	
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

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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	Phosphateddistarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP

INS no.	Name of additive	Maximum level
1420	Starch acetate	Limited by GMP
1422	Acetylated distarchadipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyldistarch phosphate	Limited by GMP
Emulsifiers		
322	Lecithins	Limited by GMP
470(i)	Salt of myristic, palmitic and stearic acids with 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 glycerol	10 000 mg/kg
Antioxidants		
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	Tocopherol concentrate, mixed	200 mg/kg
307c	Tocopherol, dl- <i>alpha</i> -	singly or in combination

Colours		
160a(i)	Carotene, <i>beta</i> -, synthetic	35 mg/kg singly or in combination
160a(iii)	Carotene, <i>beta</i> -, <i>Blakesleatrispora</i>	
160e	Carotenal, <i>beta</i> -apo-8'-	
160f	Carotenoic acid, ethylester, <i>beta</i> -apo-8'-	
160a(ii)	Carotenes, <i>beta</i> -, vegetable	600 mg/kg
160b(ii)	Annatto extracts – norbixin based	25 mg/kg
171	Titanium dioxide	Limited by GMP
Foaming agent		
290	Carbon dioxide	Limited by GMP
941	Nitrogen	Limited by GMP

In addition to the requirements of general standard mentioned in item No. (2.19) the following specific provisions apply that the additives for the product must be in accordance with the GSO standard.

6. 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.

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 and with the maximum residue limits for veterinary drug residues and pesticides established for milk by the standard.

In addition to the requirements of general standard mentioned in item No. (2.15) the following specific provisions apply that the contaminants and toxins in the food products do not exceed the maximum limits mentioned in the GSO standard.

7. 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, the Code of Hygienic Practice for Milk and Milk Products and other relevant standards such as Codes of Hygienic Practice and Codes of Practice.

8. LABELLING

In addition to the provisions of the General Standard for the Labelling of Prepackaged Foods mentioned in 2.1 and the General Standard for the Use of Dairy Terms, the following specific provisions apply:

8.1 Name of the food

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 misled.

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 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 the 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 (4.3) 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.

8.2 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 transformation² 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.

8.3 Declaration of milkfat content

The milk fat content shall be declared in a manner found acceptable in the country of retail sale, either (1) as a percentage by mass, (2) as a percentage of fat in dry matter, or (3) in grams per serving as quantified in the label, provided that the number of servings is stated.

² For instance, repackaging, cutting, slicing, shredding and grating is not regarded as substantial transformation.

8.4 Labelling of non-retail containers

Information specified in Section (8) of this Standard and information of the General Standard for the Labelling of Prepackaged Foods 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.

9. METHODS OF SAMPLING AND ANALYSIS

For checking the compliance with this Standard mentioned in 2.9