ORGANIC GUAR GUM (E412) NATUURLIJK NATUURLIJK PRODUCT CODE: X1530, X1531, X1532, X1590

DATE OF ISSUE 23-10-2023

PRODUCTION: 26102505



1. PRODUCT IDENTIFICATION						
Product name	1.1 Supplier product information Product name Organic guar gum					
Production		26102505				
Product code	Conte		EAN	Packaging		
X1530	60g		8718309830328	Plastic jar and screw lo	ck cap with warranty	
X1531	150g		8718309830335	seal.	•	
X1532	700g		8718309830342	Jar = PP Cap = PE-P	AD.	
X1590	10kg		8718309830847	Blue bag = PE-HD in box	<	
1.2 Scientific	produ	ct ir	nformation			
Single ingredie	nt					
Main use		Thic	nickening agent			
Chemical name		gun	gum guar from organic farming			
Chemical formula		guar gum is a polysaccharide				
Production method		Guar gum powder is the ground and dried endosperm obtained from the seeds of the guar plant (Cyamopsis tetragonolobus), a leguminous plant that grows mainly in arid and semiarid regions like India and Pakistan, where it grows well because of its drought resistance.				
1.3 Legislative	1.3 Legislative product information					
CAS number		900	0-30-0			
EU food additive		E41	2			
Country of Origin		India				
Certification		Organic		Certification number	103446	
		Ins	titute	Skal NL-BIO-01		
2. PRODUCT INFORMATION						
2.1 Physical and Chemical properties						
		Uni	t	Specification	Method	
Appearance				powder		
Colour				cream - white		
Odour/taste				neutral		
Moisture		%		max. 9		

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Solubility	Soluble but forms very viscous solutions which become pasty at concentrations greater than 5%			
Protein	%	max. 7	(N 6,25)	
Particle size	mesh +50	max. 1%		
	mesh -200	max. 20%		
Galactomannans	%	min. 78		
pH		5,5 - 7,5	1% solution	
Viscosity*	cps	4.500 - 5.500	1 % at 20°C after 24 hours	
2.2 Microbiological	data			
Total plate count	Cfu/g	< 1.000		
Yeasts and moulds	Cfu/g	< 500		
E Coli	2 g	absent		
Salmonella	25g	absent		
2.3 Chemical analy	ses			
Heavy metals	ppm	<20		
Ethylene oxide (total)	mg/kg	0,010		
2.4 Nutritional Info	ormation			
2.4.1 Nutritional Va	alues			
Energy	kJ/100g	628		
Energy	kcal/100g	150		
Protein	g/100g	5,0		
Carbohydrate:	g/100g	0		
Of which Sugars	g/100g	0		
Polyols	g/100g			
Starches	g/100g			
Others	g/100g			
Fat:	g/100g	1,0		
Of which Saturated	g/100g			
Mono-unsaturated	g/100g			
Poly-unsaturated	g/100g			
Transfatty acids	g/100g			

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Cholesterol	mg/100g		
Water	g/100g	9	
Organic acid	g/100g		
Dietary fiber	g/100g	82	
2.4.2 Minerals			

g/100g 0,02 Sodium (Na)

3. FOOD INTOLERANCE

3.1 Allergens

Yes = √ / No = X	Contains	Direct Contamination	Cross-Contamination (Risk)
Celery and celery products	X	X	X
Cereals containing gluten and products produced with these	X	X	X
Crustaceans	X	X	X
Eggs and egg products	X	X	X
Fish and fish products	X	X	X
Lupin and products thereof	X	X	X
Milk and milk products	X	X	X
Molluscs and products thereof	X	X	X
Mustard and mustard products	X	X	X
Nuts and nut products	X	X	X
Peanuts and peanut products	X	X	X
Sesame and sesame products	X	X	X
Soybean and soybean products	X	X	X
Sulphite (E221 – E228)	X	X	X
Sulphur dioxide	X	X	X
3.2 Suitability for other diets:			
Coeliacs	√	Lactose intolerant	√

Vegans

NATUURLIJK NATUURLIJK special food ingredients Celsiusstraat 56 NL-6716 BZ Ede

Halal

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Kosher Vegetarian $\sqrt{}$

3.3 GMO Declaration:

Organic guar gum does not contain genetically modified organisms and is not produced using raw materials of a genetically modified origin. At no stage during production does the product comes into contact with genetically modified organisms.

3.4 Irradiation / nanotechnology:

Organic guar gum is not treated with ionizing radiation, and free of nanotechnology.

4. STORAGE CONDITIONS

Storage conditions	In closed original packaging. Must be kept cool and dry. Keep container closed to avoid moisture pick-up.
Shelf life	36 months after production, under the above mentioned conditions.

5. FOOD SAFETY

5.1 Hygiene:

This product is produced in a facility wit an on HACCP based food safety system.

5.2 Identifications of dangers:

Classification of the substance (Regulation (EC) No 1272/2008)

Not classified. (non- hazardous)

6. EXTENDED PRODUCT INFORMATION

6.1 Usage

Guar Gum Powders belong to the group of Galactomannans with unique thickening and binding properties both in cold and hot water systems in very low concentrations. Guar gum is economical because it has almost eight times the water-thickening potency of cornstarch, only a very small quantity is needed for producing sufficient viscosity. It can be used as a thickener, maintaining homogeneity and texture, work as a binder and improve stability of products.

Guar gum powder can be processed under the usual conditions, preferably under application of a high-speed stirrer. Pre mixing with other dry ingredients such as sugars or salt is prefered.

Application of guar gum powder in ice cream production

Guar gum helps inhibit the formation of large ice crystals by binding water molecules, thereby creating a smoother texture. This prevents the ice cream from becoming icy and reduce wateriness in ice cream.

Guar gum helps to increase the viscosity of ice cream. As the viscosity increases in ice cream, the smoothness of texture and resistance to melting increases. And it reduces ice and lactose crystal growth during storage.

Guar gum prevents wheying off (syneresis) as well as shrinkage during storage. (wheying off can be defined as leakage of a watery layer during the melting of the ice cream).

It can also help to decrease the fat content with increase in water concentration in the formulation.

Dosage: 0,2-0,5% guar gum powder in the ice cream mix.

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Dosage: 0,10 - 0,60%			
Use	Food Product	Functions and/or benefits	
Beverages		Minimum flavor contribution; improved mouthfeel; prolonged suspension time of fruit particles; reduced rate of loss of carbonation; bodying agent.	
Canned foods	Soups	Improved suspension of meat and vegetable chunks; improved mouth feel.	
Cooked foods	Gravies, sauces	Smooth, uniform product, free of lumps; eye- appealing sheen; good pour characteristics; improved cling to meat or mashed potato.	
Dairy products	Cheese spread, cold- pack cheese, creaming mixture	Uniform viscosity; prevention of syneresis; improved shelf life; retention of product quality under favorable storage conditions; better distribution of particles.	
	Ice cream	Rapid dispersion; good stabilizing and bodying; good uniformity and body.	
Dry foods	Dry mixes	Rapid thickening; reduced mixing time; rapid cold-water hydration.	
	Instant mixes	No need for boiling; increased viscosity; moisture retention; better shelf life.	
Frozen foods		Prevention of juice and fruit separation on thawing; suitability for freeze-thaw products.	
Icings and frostings		Rapid cold-water hydration; easy incorporation of overrun; good flavor properties; prevention of icing weeping in the wrapping.	
Jams and jellies		Uniform body; cold-thickening ability; resistance to breakdown in the heating-cooling process.	
Meat products		Immobilization of free water; improvement of flow rate during stuffing in casings, producing firmness and increased viscosity in encased products.	
Noodle manufacture		More elastic properties; improved mouthfeel; improved dough handling.	
Pie fillings	Cream, fruit, jelly	Adaptability to any method of processing, allowing full flavor to come through; impartation of good body and viscosity; eye appeal.	
Sauces and syrups		Uniform body; water retention; heat-cold resistance.	
Others	Mustard manufacturing	Softening of harsh vinegar flavor; thickening; preservation of mustard flavor.	
	Tortilla manufacturing	Retardation of product's cracking tendency; reducing of dough stickiness; better machining quality.	

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			Barbeque sauce	Long shelf life; prevention of separation; free-flowing qualities; good cling to meat.		
			Doughnut	Prevention of grease penetration into the		
			manufacturing	doughnut.		
6.2	Dictionary					
NL	The	Gua	Guarpitmeel			
	Netherlands	Gua	rgom			
GB	Great	Gua	r gum			
	Britain (UK)	Gua	ran			
DE	Germany	Gua	rkernmehl			
		(Gua	aran)			
FR	France	Gon	nme de Guar			
ES	Spain	Gon	na guar			
PT	Portugal	Gon	na de guar			
IT	Italy	Gon	Gomma di guar			
DK	Denmark	Guar gummi				
		Guargummi				
NO	Norway	Gua	Guar gum			
SE	Sweden	Guarkärnmjöl				
FI	Finland	Gua	Guarkumi			
IS	Iceland	Gúar gúmmí				
CZ	Czech	Guma guar				
	Republic					
SK	Slovak	gua	guarová guma			
	Republic					
HU	Hungary	Guargumi				
HR	Croatia	Gua	r guma			
	(Hrvatska)					
GR	Greece	Κόμμι γκουάρ				
SI	Slovenia	Guar gumi				
PL	Poland	Guma guar				
RO	Romania	Guma guar				
BG	Bulgaria	Гума гуар				
RU	Russian	Гуаровая камедь				
	Federation					

7. DISCLAIMER

Guar zamkı

Turkey

Although we take great care in setting up this product specification, we cannot accept any liability for the completeness and fully accurateness of the information provided. The content of this Product Specification is completed to the best of our knowledge.

This document does not dismiss the user of his legal obligations with respect to food safety.

This product specification replaces any previously issued specifications.

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