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NTC 611-2020

Date updated: 19-jun-25

Product: White Sugar

Health Notification: NSA-0008393-2020

Process Description: A natural crystallized solid product obtained from the boiling of sugarcane juice, consisting of loose crystals of sucrose; obtained by appropriate industrial processes. The most relevant equipment used are: mills, clarifiers, evaporators, buckets, centrifuges, dryers and balers. This product is free of GLUTEN and GMO (Genetically Modified Organisms).

	Packaging	Packaging			
National (N)	Export (E)	N - Stick Pack bolsa 5 g. N - Family pack 500 g. N - Family pack 1000 g. N - Empaque familiar 2500 g. N - Paper Sack Capacity 25 kg. N - Paper Sack Capacity 50 kg. N - Polypropylene Sack 25 kg N - Polypropylene Sack 50 kg E - Polypropylene Bag with Polyethylene Inner Bag 25 kg. E - Polypropylene Bag with Polyethylene Inner Bag 50 kg. E - Polypropylene Big Bag with Polyethylene Inner Bag 1000 kg.	Inside the vehicle		
Instructions Usage:	Sugar is used as a sweetener, food preservative. The product is aimed at the entire population. Administer with caution to people susceptible to the consumption of sugar, not suitable for diabetics, hypoglycaemic patients, hypersensitive to sucrose.		Product composition:	Sucrose (minimum 99.4%)	
Use in the expected:	Sugar should not be used for cosmetic use, it can be abrasive to the skin.		Estimated service life:	24 Months	

PHYSICO-CHEMICAL REQUIREMENTS	Unit	SPECIFICATION		TEST METHODS	REMARKS
		Minimal	Maximum		
Polarization at 20°C	°Z	99.40	-	NTC 586: 2021 (ICUMSA GS2/3-1)	UI (International Unit).
Conductivity ash	% m/m	-	0.15	NTC 570: 2022 (ICUMSA, GS 2/3/ 9-17)	
Granulated moisture	% m/m	-	0.07	NTC 572: 2022 (ICUMSA, GS3/1/3-15)	
Color at 420 nm	UI	-	400	NTC 5969: 2021 (ICUMSA, GS 2/3-9)	
Turbidity at 420 nm	UI	-	250	NTC 5969: 2021 (ICUMSA, GS 2/3-9)	
Sulfur dioxide (SO2)	mg/kg	-	10.0	NTC 5970: 2022 (ICUMSA, GS 2/1/7-33)	
Insoluble matter	mg/kg	-	50.0	NTC 6298: 2017 (ICUMSA, GS 2/3/9-19)	

MICROBIOLOGICAL REQUIREMENTS By the Plate Counting Technique NTC 611-2020	UNIT	n	c	SPECIFICATION		TEST METHODS	REMARKS
				m	M		
Mesophilic aerobic bacteria count	UFC/g	5	3	20	60	NTC 3908: 2017 (ICUMSA GS2/3-43)	The microbiological specifications mentioned in this technical sheet correspond to the limits defined by NTC 611, however, by meeting these parameters we guarantee compliance with Resolution 1407 of 2022 of the Ministry of Health and Social Protection of Colombia.
Total Coliform Count		5	3	<10	10	NTC 6086: 2014	
Recuento de mohos		5	3	10	40	NTC 3954: 2017 (ICUMSA, GS2/3-47)	
Recuento de levaduras		5	3	10	40	NTC 3954: 2017 (ICUMSA, GS2/3-47)	
Recuento de escherichia coli		5	0	<10	-	NTC 6086: 2014	

n = Number of samples to be examined. M = Maximum permissible index to identify the acceptable level of quality. m = Maximum permissible index to identify the level of good quality. c = Maximum number of permissible samples with results between m and M.

PESTICIDE RESIDUE REQUIREMENTS Resolution 2906 of 2007	UNIT	SPECIFICATION		TEST METHODS	REMARKS
2,4-D	mg/kg	Maximum	0.05	HYDR_01_A	Own procedures of accredited external laboratory
Aldicarb		Maximum	0.1	LMS_01_B	
Azinfos-Metilo		Maximum	0.2	LMS_01_B	
Carbofuran		Maximum	0.1	LMS_01_B	
Ethopropro		Maximum	0.02	GMS_01_B	
Glyphosate		Maximum	2.0	GGA_01_B	
Propiconazole		Maximum	0.05	LMS_01_B	
Tebufozide		Maximum	1.0	LMS_01_B	

HEAVY METALS AND CONTAMINANTS REQUIREMENTS	UNIT	SPECIFICATION		TEST METHODS	REMARKS
Arsenic (AS)	mg/kg	Maximum	0.5	SM 3120 A,B Ed 23. Modified	Specifications of heavy metals according to NTC 611:2020 and other contaminants according to Resolution 3709 of 2015
Copper (Cu)		Maximum	1.0	AOAC 984.27 Ed 21 de 2019	
Lead (Pb)		Maximum	0.5	SM 3120 A,B Ed 23. Modified	
Acrylonitrile		Maximum	0.02	IN-GS-3.512V4 based on NTC-ISO 6401	
Melamine		Maximum	2.5	IN-GS-3.276 V3 2018-01-17	
Vinyl Chloride Monomer		Maximum	0.01	IN-GS-3.512V4 basado en UNE-EN 13130-5	

SENSORY ANALYSIS	UNIT	Specifications	TEST METHOD	REMARKS	
Appearance	Not applicable	Uniform grain in color	NTC 6341: 2019	Foreign matter corresponds to any material not characteristic of the sugar production process, such as metal particles and insect parts. There are other particles that can be found, composed of the same nature as sugar, such as white, black and others (light brown or beige) for which a limit has been defined expressed in units/kg.	
Taste		Signature Sweet			
Smell		Free of strange odors			
Foreign Matter (visual)	Unit/kg	Absence	NTC 6341: 2019	<7mm FDA USDA Chapter 5 Section 555.425	
Particles (visual)		White			20
		Black (>1,5 mm)			7
	Other	20			

STORAGE CONDITIONS

For preservation, store in a covered, cool, dry place. Avoid contact with other products that may affect its organoleptic properties. The transport vehicle must be clean and dry, free of residues, strong odours and/or elements that alter its presentation. The product does not contain any type of coloring, flavoring or flavoring.

ALLERGENS INFORMATION

Our process is permanently monitored, ensuring that our sugars do not contain levels higher than 10 mg/kg of sulfur dioxide (SO2), which is the maximum limit allowed, according to NTC 611-2020.

DISTRIBUTION & DELIVERY METHODS

The distribution method is carried out using vehicles designated as food transport, clean, free of residues, odors or any other element that alters the product or its presentation. The delivery of the items will be arranged at a suitable place proposed by the buyer. The types of vehicles used are dumps, bodies, vans, double trucks, tankers. The contracting of these vehicles can be carried out under the responsibility of the customer or directly carried out by the mill.

LABELING REGULATORY AFFAIRS

For national marketing, Resolution 5109 of 2005 (labeling), Resolution 810 of 2021 (nutritional table), NTC 512-1, 512-2 and NTC 611-2020 (for product quality seals) must be taken into account. For international marketing, Codex Stan 4-1985, Rev. 1-1991: 2005 should be considered. General standard for the labelling of pre-packaged foods and specific regulations depending on the country to which they are to be exported. No repacking. The quality and safety of this product is not guaranteed in the event that its name, brands and/or packaging change.

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