

	ESPECIFICAÇÃO TÉCNICA DO PRODUTO – TRADUÇÕES (TECHNICAL PRODUCT SPECIFICATION)	ETPT Nº: 001	Revision: 16	Page: 1 de 4
		Date of Issuance: 29/05/2018		Last Revision: 22/04/2025
Product:	CRYSTAL SUGAR			

1. OBJECTIVE

Define the chemical and physical-chemical characteristics of the sugars produced by Grupo Santa Isabel.

2. APPLICATION

Apply to the internal control of all White Crystal Sugar and VHP produced by Grupo Santa Isabel.

3. DESCRIPTION

3.1. Composition

Sugarcane sucrose – **99.7% min.**

Water – **0.07% max.**

AR (Fructose + Glucose) – **0.02% max.**

Insoluble Solids – **0.21% max.**

3.2. Definition

As defined in Resolução RDC nº 723 de 01/07/2022 – Requisitos sanitários do açúcar.

Crystal Sugar Type I, II, III and IV: Sugar in crystalline form, with color controlled within the specified range, produced directly at the mill, without refining, originating from ready-to-eat sugar cane.

Class: White Crystal.

Type: Crystal.

Type V Raw Sugar - (VHP): Raw sugar, well-defined crystals, originating from sugar cane, requiring reprocessing for consumption.

Class: Rough Crystal.

Type: VHP.

3.3. Product Name (product name)

Type I White Crystal Sugar

- Storage in Big Bags from 1000 to 1300 kg;
- Sales on the domestic market and export in bags of 50 kg and 25 kg.

Type II White Crystal Sugar

- Storage in Big Bags from 1000 to 1300 kg;
- Sales on the domestic market and export in bags of 50 kg and 25 kg.

Type III White Crystal Sugar

- Storage in Big Bags from 1000 to 1300 kg;
- Sales on the domestic market and export in bags of 50 kg and 25 kg.

Type IV White Crystal Sugar

- Storage in Big Bags of 1000 to 1300 kg.
- Sales on the domestic market and export in bags of 50 kg and 25 kg.

Type V Raw Sugar (VHP)

- VHP sugar maximum color 1200;
- Packed in bags weighing 1000 to 1250 kg;
- In bulk.

Elaborated by:		Critically analyzed by:		Approved by:
Amanda R. A. Souza	Livia Saura	Fernando Vicentino	Ariane Garcia Justo	Rafael Prates Tripodi
Quality Analyst		Laboratory Manager	Industrial Process Supervisor	Quality Supervisor

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3.4. CHEMICAL AND PHYSICAL - CHEMICAL CHARACTERISTICS, STORAGE AND PACKING

3.4.1. Organoleptic, Physical, Chemical, Biological and Macroscopic	Method	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V (VHP)	Frequency of analyzes
Appearance	POP LA (AÇ)-002	Related to type of Sugar				N/A	Daily composite sample of the batch.
Smell	POP LA (AÇ)-003						
Taste	POP LA (AÇ)-004						
ICUMSA Color (U.I.) IN 47/2018 - Mapa e IN 60/2019 – Mapa	POP LA (AÇ)-005	100 max.	150 max.	200 max.	240 max.	1200 max.	
Polarization (°Z) IN 47/2018 - Mapa e IN 60/2019 – Mapa	POP LA (AÇ)-006	99,70 min.	99,70 min.	99,50 min.	99,50 min.	99,00 min.	
Moisture (%) IN 47/2018 - Mapa e IN 60/2019 – Mapa	POP LA (AÇ)-007	0,07 max.	0,07 max.	0,07 max.	0,07 max.	0,15 max.	
Black Sptos (Nº/100 g) IN 47/2018 - Mapa e IN 60/2019 – Mapa	POP LA (AÇ)-008	7 max.	7 max.	10 max.	10 max.	-	
Insoluble Residue (Nº/100g) IN 47/2018 - Mapa e IN 60/2019 – Mapa	POP LA (AÇ)-009	5 max.	5 max.	7 max.	7 max.	-	
Magnetized Particles (mg/kg) IN 47/2018 - Mapa e IN 60/2019 – Mapa	POP LA (AÇ)-010	≤ 3				-	
Conductometric Ash (%) IN 47/2018 - Mapa e IN 60/2019 – Mapa	POP LA (AÇ)-011	0,07 max.	0,07 max.	0,10 max.	0,10 max.	0,15 max.	
Sulphite (mg/kg) RDC 778/2023 - CNS e IN 211/2023 - Anvisa	POP LA (AÇ)-012	10,0 max.				-	Internal Lab: daily / External Lab: quarterly.
Starch (mg/kg)	POP LA (AÇ)-013	180 max.			-	-	Daily composite sample of the batch.
Dextran (mg/kg)	POP LA (AÇ)-014	150 max.			-	-	
Alcoholic flakes (abs)	POP LA (AÇ)-015	0,120 max.			-	-	
Granulometry (mm)	POP LA (AÇ)-016	0,5 - 0,8 AM-mm			0,7 - 1,0		
Foreign matter indicating a risk to human health ⁽¹⁾							
Microscopic (particles/dirt) RDC 623/2022 - Anvisa - Anexo I Grupo 7	External laboratory	Absence of dirtiness that affects consumption				-	Quarterly of the composite sample of the batch.
Macroscopic (dirt, parasites, larvae, and inferior tissues) (mg/kg) RDC 623/2022 - Anvisa - Anexo I Grupo 7		1 max.					
Insoluble Ash in HCl (Sand) (%) RDC 623/2022 - Anvisa - Anexo I Grupo 7		1,5 max.					
Microbiological Standards							
Total coliforms (NMP/g)	POP LA (MB)-003 / External laboratory	10² NMP/g max.				-	Internal Lab: weekly. External Lab: quarterly.
Thermotolerant coliforms (NMP/g)	POP LA (MB)-002/ External laboratory	Absent in 25 grams.				-	
Salmonella sp.	POP LA (MB)-005/ External laboratory	< 10				-	
Molds and yeasts (UFC/g) RDC 724/2022 - Anvisa e IN 161/2022 - Anvisa (Anexo I Cat. 16)	POP LA (MB)-005/ External laboratory	< 10				-	
Contaminants							
Arsenic (mg/kg) RDC 722/2022 - Anvisa e IN 160/2022 - Anvisa (Anexo I Item 1.1)	External laboratory	0,10 max.				-	Quarterly of the composite sample of the batch.
Copper (mg/kg) RDC 722/2022 - Anvisa e IN 160/2022 - Anvisa (Anexo I Item 1.4)		10,0 max.				-	
Lead (mg/kg) RDC 722/2022 - Anvisa e IN 160/2022 - Anvisa (Anexo I Item 1.3)		0,10 max.				-	
Mycotoxins (mcg/kg) ⁽¹⁾ RDC 722/2022 - Anvisa e IN 160/2022 - Anvisa (Anexo II)	External laboratory	There is no product control limit				-	Annually.
Dioxins and Furans (PCDD+PCDF) (pg/g) ⁽²⁾ RDC 722/2022 - Anvisa e IN 160/2022 - Anvisa (Anexo III)	External laboratory Method AOAC CR-0109	There is no product control limit				-	Biennially.

⁽¹⁾ According to RDC No. 623, of March 9, 2022, from Anvisa, established in Annex II, it defines the tolerance limit for dead mites in food, with a maximum value of 5. The analysis is carried out in an external laboratory for sugar types I to IV during the harvest period, quarterly in Unit I, or according to the production period in Unit II.

⁽²⁾ According to Normative Instruction No. 160, dated July 1, 2022, the limits defined in Annex II - Maximum Tolerated Limits for mycotoxins in food for Aflatoxin M1, Aflatoxins (B1 + B2 + G1 + G2), Deoxynivalenol (DON), Fumonisin (B1 + B2), Ochratoxin A, Patulin, Zearalenone (ZEA), Benzo(a)pyrene, Dioxins (PCDD), furans (PCDF), and polychlorinated biphenyls (PCB) do not apply to the product. An additional analysis is conducted annually.

3.5. Storage Requirements

Keep in dry places, away from chemical products and sun light, below 40°C and moisture at 30 - 90%.

Shelf life - 24 months.

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3.6. Packing / Distribution

Primary - 50 kg and 25 kg bags – low density polyethylene (liner), secondary - polypropylene (raffia).

Primary - 1000 - 1300 kg big bags - polypropylene (raffia).

Distribution – Covered trucks.

3.7. Nutritional Information in 5 g and 100 g portion. ⁽³⁾

NUTRITIONAL INFORMATION			
Amount per serving	100 g	5 g	% DV (*)
Energy value (kcal)	400	20	1
Carbohydrates (g)	100	5	2
Total sugars (g)	100	5	
Added sugars (g)	0	0	0
Proteins (g)	0	0	0
Total Fat (g)	0	0	0
Saturated fat (g)	0	0	0
Trans fats (g)	0	0	0
Dietary fibers (g)	0	0	0
Sodium (mg)	0	0	0

“Does not contain significant amounts of added sugars, proteins, saturated fats, trans fats, dietary fiber and sodium.”

() Daily reference values based on a diet of 2000 kcal or 8400 kJ. Your daily values may be higher or lower depending on your energy needs. Gluten-free*

(RDC Nº 429 Anvisa de 08/10/2020 / IN Nº 75 Anvisa de 08/10/2020)

⁽³⁾ Analyzes carried out for each harvest, of the sample composed of the batches shipped.

3.8. Additional Information

GMO: Product not from genetically modified organisms;

Inputs of animal origin: Not used in any stage of the manufacturing process;

Target audience: supermarkets, wholesalers and candy factories in the domestic market;

Allergenic compounds: When the sulfite residual is greater than 10 mg/kg;

Rigid, pointed and/or sharp objects, equal to or greater than 2 mm (measured in the largest dimension) – Absence.

Sensitive populations: diabetics.

Preparation and intended use: in portions diluted in liquids or added in the preparation of recipes.

Cross-Contamination: There are control measures to prevent microbiological, chemical, physical and allergens cross-contamination.

Shelf life after opening: 6 months.

Packaging labeling meets the specific legislation for the product.

GLUTEN-FREE.

3.9. Additional information

Pesticides ⁽⁴⁾: The product meets the residual limits of pesticides determined by the Codex Alimentarius (GS 0659) of sugarcane.

Aw = 0.40 - 0.60.

pH = 6.0 - 7.3 (aqueous solution 100 g/l).

⁽⁴⁾ Analyzes carried out for each harvest, of the sample composed of the batches shipped.

3.10. Item lists

ITEM	DESCRIÇÃO
81	AÇÚCAR CRISTAL BRANCO 50 KG - MI - SC REVESTIDO
82	AÇÚCAR CRISTAL BRANCO 25 KG - MI - SC REVESTIDO
34	AÇÚCAR CRISTAL BRANCO - BIG BAG
40	AÇÚCAR CRISTAL CLASSE BRUTO VHP - BIG BAG 1300 KG
30	AÇÚCAR CRISTAL CLASSE BRUTO VHP A GRANEL – EXPORTACAO

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31	AÇÚCAR CRISTAL BRANCO 50 KG - EXPORTAÇÃO SC MARROM			
32	AÇÚCAR CRISTAL BRANCO 25 KG - EXPORTAÇÃO SC MARROM			
39	AÇÚCAR CRISTAL CLASSE BRUTO VHP 50 KG - EXPORTAÇÃO			
53	AÇÚCAR CRISTAL BRANCO - BIG BAG 1000 KG - EXPORTAÇÃO			
71	AÇÚCAR CRISTAL BRANCO 50 KG - EXPORTAÇÃO SC BRANCA			
72	AÇÚCAR CRISTAL BRANCO 25 KG - EXPORTAÇÃO SC BRANCA			
74	AÇÚCAR CRISTAL CLASSE BRUTO VHP - EXPORTAÇÃO BIG BAG 1000 KG			
79	AÇÚCAR CRISTAL CLASSE BRUTO VHP - EXPORTAÇÃO BIG BAG 1075 KG			
86	AÇÚCAR CRISTAL CLASSE BRUTO VHP - EXPORTAÇÃO BIG BAG 1200 KG			

Cópia Não Controlada

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