

TECHNICAL DATASHEET DARK CHOCOLATE - VARIEDAD MARANTA 61%	CODE: PBOG-DD-FT-177 EDITION: 11 DATE: SEPTEMBER 2022	
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## PRODUCT IDENTIFICATION

**Name:** Dark chocolate 61% Cacao

**Brand:** LUKER CACAO – MARANTA

**Description:** Dark chocolate couverture produced from a mix of Fino de Aroma cocoas. For use as couverture, for moulding and as an ingredient for confectionary.

**Ingredients list:** Cocoa mass, sugar, cocoa butter, emulsifier (soy lecithin) and vanilla extract.

**Presentation:** 20Kg, 10Kg, 2,5Kg, 1Kg, 50X6g

**Country of Origin:** Colombia.

## PRODUCT PROPERTIES

SENSORY CHARACTERISTICS		
CHARACTERISTIC	SPECIFICATION	METHOD
Taste and Aroma	Characteristic of dark chocolate, free of foreign odors and flavors	Sensory analysis
Color	Characteristic of dark chocolate	Sensory analysis
Appearance	Solid paste	Sensory analysis

PHYSICOCHEMICAL CHARACTERISTICS			
CHARACTERISTIC	UNIT	SPECIFICATION	METHOD
Moisture	%	1.0 max	AOAC 931.04 – Gravimetric analysis in halogen moisture analyzer
Fat	%	39,5 - 42,5	AOAC 963.15 – Nuclear Magnetic Resonance (NMR)
Viscosity	Pa*s	0,500 - 1,000	IOCCC 2000 – Casson Model
Yield value	Pa	1,500 - 4,500	IOCCC 2000 – Casson Model
Granulometry	microns	20 – 25	Micrometer

MICROBIOLOGICAL CHARACTERISTICS			
CHARACTERISTIC	UNIT	SPECIFICATION	METHOD
Mesophilic aerobic bacteria count	CFU/g	10.000	AOAC 966.23 - Depth plate count / AOAC 2015.13 - Petrifilm™ Count Plate
Yeasts and molds count	CFU/g	<100	ISO 21527-2 - Depth plate count / Soleris® Direct Yeast and Mold Test. AOAC® Performance Tested SM - Certificate No. 051301 / AOAC 2014.05 - Petrifilm™ Count Plate
Enterobacteriaceae count	CFU/g	<10	ISO 21528-2 - Depth plate count / AOAC 2003.01 - Petrifilm™ Count Plate
Total coliform organisms count	CFU/g	<10	ISO4832 - Depth plate count / AOAC 998.08 Petrifilm™ Count Plate
Escherichia coli count	CFU/g	<10	ISO4832 - Depth plate count / AOAC 998.08 Petrifilm™ Count Plate
Staphylococcus aureus (+) count	CFU/g	<100	ISO 6888 - Surface plate count
Bacillus Cereus count	CFU/g	<100	ISO 7932 - Surface plate count

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A/P Salmonella sp	A/P	ABSENT	ANSR for Salmonella. AOAC® Performance Tested <sup>SM</sup> - Certificate No. 061203
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### NUTRITIONAL INFORMATION

Nutritional information based on 100 g:

Energy	579 kcal	Trans Fatty Acids	0 g
Energy	2422,5 kJ	Cholesterol	0 mg
Total Protein	5,4 g	Sodium	0 mg
Total Carbohydrates	49 g	Potassium	338,5 mg
Sugars	38 g	Calcium	75,6 mg
Including Added Sugars	38 g	Iron	1,12 mg
Dietary Fiber	6,9 g	Vitamin A	0 UI (0 mcg)
Total Fat	41 g	Vitamin C	0 mg
Saturated Fat	24 g	Vitamin D	0 mcg

### FOOD SAFETY STATEMENTS

ALLERGEN	AS INGREDIENT (Y/N)	PRESENT IN PRODUCT MANUFACTURED ON THE SAME LINE (Y/N)	PRESENT IN THE PRODUCTION PLANT (Y/N)
Cereals containing Gluten and products thereof	N	N	N
Peanuts and products thereof	N	N	N
Crustaceans and products thereof	N	N	N
Fish and products thereof	N	N	N
Eggs and products thereof	N	N	N
Nuts and Products thereof	N	N	N
Milk and products thereof	N	Y	Y
Soybeans and products thereof	Y	Y	Y
Sulfur dioxide and Sulphites in concentrations higher than 10 mg/kg or 10 mg/liter expressed as SO <sub>2</sub> (0)	N	N	N
Celery and products thereof	N	N	N
Mustard and products thereof	N	N	N
Sesame seeds and products thereof	N	N	N
Molluscs and products thereof	N	N	N

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CHARACTERISTICS	UNIT	SPECIFICATION	METHOD	
Heavy Metals	Arsenic	ppm	1.0 max.	AOAC 968,15
	Mercury	ppm	0.1 max	AOAC 999.11
	Lead	ppm	1.0 max.	AOAC 999.11
	Copper	ppm	50 max	AOAC 999.11
	Cadmium	ppm	0.8 max.	AOAC 999.10
Mycotoxins	Aflatoxins (Sum of G1, G2, B1, B2)	ppb	10 max.	AOAC 994.08 – LC-MSMS
Foreign Material	-	Absent	AOAC 965.38	
Pesticides	-	According to European Union Legislation	GC-MSMS / LC-MSMS	

**Non-GMO Statement:** Product manufactured with Non-GMO raw materials. Complies with the established in EC regulations 1829 and 1830 of 2003.

### INSTRUCTIONS FOR PREPARATION

Deposit the desired amount of dark chocolate in a melting tank. Be sure the temperature be between 45 °C (113 °F) and under 55 °C (131 °F).

Make a crystallization curve and place in a mold the chocolate at a temperature of 29.5 to 31.5 °C (85.1 to 88.7 °F).

### USES

**INTENDED USE:** In food and as a raw material in the confectionery and pastry industries

**NON-INTENDED USE:** Consumption after expiration date, or under inappropriate storage conditions.

These can alter the sensory, physicochemical and microbiological properties

SUITABLE FOR DIETS	(Y/N)
Kosher	Y
Vegetarian	Y
Vegan	N

### PACKAGING, PACKING AND DISTRIBUTION SPECIFICATIONS

PRESENTATION 20KG			
PACKAGING	MATERIAL	DIMENSIONS	UNIT WEIGHT
Primary	Bag COEXTRUSION HBA + WHITE PIGMENT	790 mm x 390 mm x 290 mm	20,076Kg
Secondary	Box BC 1130 K	382 mm x 278 mm x 310 mm	21kg
Tertiary	-	-	-
Total units per pallet / Approximate weight	40 boxes		864,7Kg
Layers per pallet	4 layers – Maximum 7 layers		
Units per layer	10 boxes per layers		
Total pallet height	1,43 m		

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<b>PRESENTATION 10KG</b>			
<b>PACKAGING</b>	<b>MATERIAL</b>	<b>DIMENSIONS</b>	<b>UNIT WEIGHT</b>
Primary	Bag LDPE BLUE	545 mm x 385 mm x 145 mm (largo x ancho x fuelle)	10,045kg
Secondary	Box C 930 K	378 mm x 291 mm x 161 mm (largo x ancho x alto)	10,5kg
Tertiary	-	-	-
Total units per pallet / Approximate weight	90 boxes		971Kg
Layers per pallet	8 layers – Maximum 12 layers		
Units per layer	10 boxes per layers		
Total pallet height	1,438 m		

<b>PRESENTATION 2,5KG</b>			
<b>PACKAGING</b>	<b>MATERIAL</b>	<b>DIMENSIONS</b>	<b>UNIT WEIGHT</b>
Primary	Bag PET + NYLON + LDPE with EVOH	337mm x 270mm x 120mm	2,534Kg
Secondary	Box C 790K	398mm x 288mm x 226mm	10,58kg
Tertiary	-	-	-
Total units per pallet / Approximate weight	50 boxes		554Kg
Layers per pallet	5 layers – Maximum 12 layers		
Units per layer	10 boxes per layer		
Total pallet height	1,28 m		

<b>PRESENTATION 1KG</b>			
<b>PACKAGING</b>	<b>MATERIAL</b>	<b>DIMENSIONS</b>	<b>UNIT WEIGHT</b>
Primary	Bag PET + NYLON + LDPE with EVOH	295mm x 190mm x 80mm	1,021Kg
Secondary	Box C 930K	323mm x 252mm x 256mm	10,68kg
Tertiary	-	-	-
Total units per pallet / Approximate weight	75 boxes		826,3Kg
Layers per pallet	5 layers – Maximum 8 layers		
Units per layer	15 boxes per layer		
Total pallet height	1,43 m		

<b>PRESENTATION 6G</b>			
<b>PACKAGING</b>	<b>MATERIAL</b>	<b>DIMENSIONS</b>	<b>UNIT WEIGHT</b>
Primary	Flow pack BOPP+ BOPP	90mm*70mm	6,29g
Secondary	PPC + PEBD Bag	80mm*132mm	321,1g
	Box 540 kgf/m C-KRAFT	279mm*215mm*163mm	3,07 kg

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Total units per pallet / Approximate weight	126 boxes	386,82 Kg
Layers per pallet	7 layers – Maximum 13 layers	
Units per layer	18 boxes per layer	
Total pallet height	1.29 m – Maximum 2.27m	

### STORAGE AND TRANSPORTATION REQUIREMENTS

**SHELF LIFE:** 2 years from manufacture date in recommended storage

**STORAGE CONDITIONS BEFORE AND AFTER OPENING:** Store in a cool, dry place at temperature between 18 – 20 °C (64.4 – 68 °F) and relative humidity below 65%. Away from the wall and floor to avoid humidity transfer.  
Keep away from heat, light and strong odors.

### SEALS AND CERTIFICATIONS

**PRODUCT:** OU Kosher.

**MANAGEMENTS SYSTEMS:** FSSC 22000, ISO 9001, BASC

EDITED BY	REVIEWED BY	APPROVED BY
Packaging Auxiliary	Quality Control Manager Regulatory Affairs Professional Research and Development Professional	Research and Development Director

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