

Spec. / Rev 158057 / 2
Status Current

Effective Date 24-Oct-2023
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Page 1 of 5

Cargill B.V.
 Cargill Cocoa & Chocolate
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 www.cargillcocoachocolate.com



Cargill Cocoa & Chocolate is a trade name of Cargill B.V. Registered in Amsterdam with number 33119622

General Information

Product specification applicable for Europe, Middle East and Africa

		Comment
Product Description	Fat-reduced cocoa powder	DIR.2000/36/EC
Process	Alkalised	
Manufacturer Information	Cargill Cocoa & Chocolate	
Country of Origin	Brasil	

Process Description Fat-reduced Cocoa Powder

Cocoa powder is obtained by hydraulic pressing of cocoa mass whereby cocoa butter is separated from the cocoa cake, after which the cocoa cake is pulverized into a fine free flowing cocoa powder. Cocoa mass is produced from cocoa beans, which are deshelled and broken into cocoa nibs (the kernels). These kernels are alkalized (except for the natural cocoa powder), roasted and ground into a fine cocoa mass.

This product contains less than 20% cocoa butter, calculated according to the weight of the dry matter.

Sensory Description

		Comment
Appearance	Fine powder, free flowing	
Colour	Black	
Taste	Typical, no off flavours	
Odour	Typical, no off flavours	

Additives

	Description
Alkali Agents Content*	>7.0%
Alkali Agents	NH ₄ HCO ₃ (E503) + K ₂ CO ₃ (E501) + KOH (E525)
Function	Acidity Regulator

* Expressed as K₂CO₃ on Fat Free Dry Matter

Composition info for labelling purposes (on total matter)

Cocoa powder (%)	77 - 92
NH ₄ HCO ₃ (%)	3 - 7
K ₂ CO ₃ (%)	5 - 12
KOH (%)	0.1 - 4

This product can only be used in reverse carry-over situation.

Chemical and Physical Parameters

		Min	AVG	Max	UOM	Method	Comment
Cocoa Butter Content	-	10		12	%	ICA 37*	
Moisture Content	-			5	%	ICA 1*	
pH	in 10% solution	8.1		8.7	pH units	ICA 15*	
Ash Content	on Fat Free Dry Matter			19	%	ICA 16*	

		Min	AVG	Max	UOM	Method	Comment
Fineness, 75µm	Wet Sieve Residue	99.8			%	ICA 11*; ICA 38*	

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Page 2 of 5

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		Min	AVG	Max	UOM	Method	Comment
Shell Content	on Alkali Free Nibs			1.75	%	AOAC 970.23	

Microbiological Analysis

		Min	AVG	Max	UOM	Method	Comment
Total Aerobic Plate Count	-			5000	CFU/g	ISO 4833-1*	
Yeasts	-			50	CFU/g	ISO 21527-2 (YGC)*	
Moulds	-			50	CFU/g	ISO 21527-2 (YGC)*	
Mesophilic Spores	-			5000	CFU/g	Internal Method	10min. 80°C; 3days at 30°C
Enterococcus Count	-			10	CFU/g	ISO 21528-2*	

		Value	UOM	Method	Comment
E-Coli	-	Absent		ISO4832*; ISO16649-2*	in 1g
Salmonella	-	Absent		ISO 6579-1/ PCR	in 375g
Lipase Activity	-	Negative			
Protease Activity	-	Negative			

Supplementary to the Method

* refers to the latest edition of the stated reference methods; also Cargill reserves the right to use internally validated methods, when verified being equivalent to stated reference method(s)

Nutritional Values

Nutrient	Value	UOM
kJ	1366	kJ/100g
kCal	325	kCal/100g
Fat	12	%
Saturated Fat	7.2	%
Mono Unsaturated Fat	3.9	%
Poly Unsaturated Fat	0.5	%
Total Carbohydrates *	8	%
Total Carbohydrates US regulations *	37	%
Sugars	1.2	%
Added Sugar	0	%
Starch	6.8	%
Insoluble Dietary Fiber	23	%
Soluble Dietary Fiber	8.4	%
Protein	28	%
Salt ** (= 2,5x Na)	0.2	%
Organic Acids	3.5	%
Theobromine	2.1	%
Caffeine	0.2	%
Moisture	4.5	%
Ash	19	%
K (Potassium)	6170	mg/100g
Na (Sodium)	100	mg/100g
Ca (Calcium)	170	mg/100g
Mg (Magnesium)	570	mg/100g
Fe (Iron)	30	mg/100g
Cu (Copper)	4	mg/100g
Zn (Zinc)	7	mg/100g
Cl (Chloride)	0	mg/100g

Spec. / Rev 158057 / 2
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Page 3 of 5

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Nutritional Values

Nutrient	Value	UOM
P (Phosphorus)	770	mg/100g
Vitamin A (Retinol)	0	mg/100g
Vitamin B1 (Thiamin)	0.1	mg/100g
Vitamin B2 (Riboflavin)	0	mg/100g
Vitamin B3 (Niacin)	3.2	mg/100g
Vitamin B5 (Pantothenic Acid)	0.2	mg/100g
Vitamin B6 (Pyridoxine)	0	mg/100g
Vitamin C (Ascorbic Acid)	0.9	mg/100g
Vitamin D (Cholecalciferol)	0	mg/100g
Vitamin E (Tocopherol)	3.9	mg/100g
Cholesterol	0	mg/100g

Trans Fatty Acids

Trans Fatty Acids: 0.1 g/100g fat

Comments on Nutritional data

The above nutritional values are all indicative data. The values originate from analytical results. The expressed analytical data comprise relevant nutritional components only. Therefore the sum does not equal 100%.

* Total Carbohydrates is the sum of Sugars, Polyols and Starch, as defined in Annex I of Regulation EC N° 1169/2011.

Total Carbohydrates US Regulation is calculated as: 100 - (protein + fat + moisture + ash), as defined in 21 CFR 101.9

** The salt content is exclusively due to the presence of naturally occurring sodium.

Packaging and Storage Information/Recommendations

	Description	UOM	Comment
Shelf Life	24	month(s)	at below storage conditions
Relative Humidity	max 50	%	-
Storage Temperature	10-25	°C	-
Transport Temperature	Ambient, recommended below 25°C	°C	-

Explanation product coding

The lot number is made up of eight/nine digits and is composed as follows:

L(L) xx xx x xx L(L) = location code

x(x) YY xx x xx YY = year code

x(x) xx WW x xx WW = week code

x(x) xx xx M xx M = machine/product code

x(x) xx xx x SS SS = production sequence of product/machine in one specific week

Year code

This is a consecutive number, indicating the production year, eg. 08 for 2008.

Week code

This code is the number of the week according to the standard week numbering.

Dietary Information

Suitable for

	Suitable for	Certified	Comment
Kosher	Yes	Yes	Orthodox Union
Vegetarian	Yes	No	

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Page 4 of 5

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	Suitable for	Certified	Comment
Halal	Yes	Yes	IFANCA
Vegans	No	No	
Coeliacs	No	No	EG 41/2009

Allergens

A = Used as ingredient in recipe

B = Present in production areas

C = Unintended presence during processing

	A	B	C	Comment
Beef	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Carrot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Celery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chicken	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cocoa	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Coriander	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Corn (Maize)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Egg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Glutamate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gluten	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lactose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Legumes/pulses (other)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lupin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Milk protein	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mollusc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nut oils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nuts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Peanut oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Peanuts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rye	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sesame	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sesame oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shellfish/Crustaceans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Soy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sulfites (E220-228)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Naturally occurring, < 10 ppm
Wheat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments on Allergens

All Allergens should read: including derivatives.

The allergens listed above are in accordance with EU regulation 1169/2011 as amended.

Comments

- U.O.M. = Unit of Measurement
- N.D. = Not detectable
- If fields are left empty, the parameter is not applicable or no specification can be given.
- All specifications guaranteed at time of loading.

Spec. / Rev 158057 / 2
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Page 5 of 5

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- The microbiological values are not obtained by any means of radiation, nor any sort of gas treatment.
- This specification is confirmed to also cover product of this type delivered under Rainforest Alliance, Fairtrade or Promise Verified mass balance.

This specification is valid till two years from printed date and supersedes all previous specifications of the same product.

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