tm duché
AND SONS LTD

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Established 1857

Raw Material Specification
Philippine Desiccated Coconut

General Description:-
Off white to pale cream powder.
Without soapiness, rancidity or other off flavours.
Contains:-
Desiccated Coconut 99.995% Sulphur Dioxide 0.005%

General Physical Standards:-		
	Target	Test Methodology
Moisture	2.0 % +/- 1.5%	Infra red
Aw Value	0.40-0.50	AOAC Int'l (2005) 18th Ed
Fat Content	65.0% +/- 5%	Soxlet Extraction Method
Free Fatty Acid	0.15% Max	
Residual S02	50 ppm Max	Johnson & Ponting
Mycotoxins		
Aflatoxin B1	2ppb Max	Elisa
Aflatoxin B1, B2, G2	4ppb Max	Elisa

Bacteriological Analysis.		
	Value	Test Methodology
Total Plate Count	5000 Colonies/gm Max	BAM 8th ed Rev A
Yeast's and Moulds	100 Colonies/gm Max	BAM 8th ed Rev A
Total Coliforms	10 Colonies/gm Max	BAM 8th ed Rev A
Salmonella	Negative/50g	BAM 8th ed Rev A
Staphlococcus	Negative	BAM 8th ed Rev A
Streptococcus	Negative	BAM 8th ed Rev A
E.Coli	Negative/10g	BAM 8th ed Rev A

Proximates	Unit	Value per 100g
Water	g	3
Energy	kcal	660
Energy	kJ	2761

Protein	g	6.88
Total lipid (fat)	g	64.53
Ash	g	1.94
Carbohydrate, by difference	g	23.65
Fibre, total dietary	g	16.3
Sugars, total	g	7.35
Minerals		
Calcium, Ca	mg	26
Iron, Fe	mg	3.32
Magnesium, Mg	mg	90
Phosphorus, P	mg	206
Potassium, K	mg	543
Sodium, Na	mg	37
Zinc, Zu	mg	2.01
Copper, Cu	mg	0.796
Manganese, Mn	mg	2.745
Selenium, Se	ug	18.5
Vitamins		
Vitamin C, total ascorbic acid	mg	1.15
Thiamin	mg	0.060
Riboflavin	mg	0.100
Niacin	mg	0.603
Pantothenic Acid	mg	0.800
Vitamin B-6	mg	0.300
Folate, total	ug	9
Folic acid	ug	0
Folate, food	ug	9
Folate, DFE	ug	9
Choline, total	mg	22.1
Vitamin B-12	ug	0
Vitamin B-12, added	ug	0
Vitamin A, RAE	ug	0
Retinol	ug	0
Carotene, beta	ug	0
Carotene, alpha	ug	0
Cryptoxanthin, beta	ug	0
Vitamin A, IU	IU	0
Lycopene	ug	0
Lutein + zeaxanthin	ug	0
Vitamin E (alpha-tocopherol)	mg	0.44
Vitamin E, added	mg	0.00
Vitamin D (D2+D3)	mg	0.00
Vitamin D	IU	0
Vitamin K (phylloquinone)	ug	0.3
Lipids		
Fatty acids, total saturated	g	57.218

4:0	g	0.000
6:0	g	0.367
8:0	g	4.520
10:0	g	3.592
12:0	g	28.625
14:0	g	11.302
16:0	g	5.469
18:0	g	3.341
Fatty acids, total monounsaturated	g	2.745
16:1 undifferentiated	g	0.000
18:1 undifferentiated	g	2.745
20:1	g	0.000
22:1 undifferentiated	g	0.000
Fatty acids, total polyunsaturated	g	0.706
18:2 undifferentiated	g	0.706
18:3 undifferentiated	g	0.000
18:4	g	0.000
20:4 undifferentiated	g	0.000
20:5 n-3 (EPA)	g	0.000
22:5 n-3 (DPA)	g	0.000
22:6 n-3 (DHA)	g	0.000
Cholesterol	mg	0.000
Amino Acids		
Tryptophan	g	0.081
Threonine	g	0.251
Isoleucine	g	0.270
Leucine	g	0.511
Lysine	g	0.304
Methionine	g	0.129
Cystine	g	0.136
Phenylalanine	g	0.349
Tyrosine	g	0.213
Valine	g	0.417
Arginine	g	1.130
Histidine	g	0.158
Alanine	g	0.352
Aspartic acid	g	0.673
Glutamic acid	g	1.574
Glycine	g	0.326
Proline	g	0.284
Alcohol, ethyl	g	0.0
Caffeine	g	0
Theobromine	g	0
Flavonoids		
Isoflavones		
Daidzein	mg	0.0

Genistein	mg	0.0
Total isoflavones	mg	0.0

Free From List	Yes	No
Egg & Egg products	Y	
Milk & milk products	Y	
Wheat & wheat derivatives	Y	
Rye, barley, oats & oat bran	Y	
Gluten	Y	
Soya & Soya products	Y	
Free From List	Yes	No
Nuts	Y	
Nut oils & derivatives	Y	
Peanuts	Y	
Sesame Products	Y	
Seeds excluding spices	Y	
Artificial colours	Y	
Preservatives	N	Max S02 50ppm
Additives	Y	
MSG	Y	
Garlic	Y	
Yeast & yeast extract	Y	
Caffeine	Y	
Beef & beef products all sources	Y	
Beef & beef products UK sources	Y	
Free From Genetically modified products	Y	

Suitable for	Yes	No
Nut allergy sufferers	Y	
Coeliacs	Y	
Lactose Intolerants	Y	
Vegetarians	Y	
Vegans	Y	

Packaging.	
Multi Walled polythene lined paper sacks or patented Ripp'N'Flow all polythene bags. Each bag is marked with our company name. Each bag has a production number.	
Storage conditions.	
Shelf Life	18 Months
Storage Temperature	Ambient
Age on delivery	Generally 2 months

Food Safety Act 1990 + Food Safety Regulations 1995 + EU Council Directive 93/43/EEC

We T.M.Duche & Sons Ltd, hereby warrant that all food, packaging and labelling supplied by us complies in all aspects with all current UK and European Food regulations with respect to the supplying of food products and services.

Without prejudice to any party we further warrant that all food so supplied by us has not been rendered injurious to health, complies with food safety requirements and is of the nature, substance and quality described and is not described, whether by means of a label or otherwise, nor presented in such a way as to be false or misleading as to the nature or substance or quality of the food.

We further warrant that we have carried out in relation to all food supplied by us such checks as a major prudent manufacturer would have reasonably carried out to comply with all aforementioned legislation and regulations, however this does not remove the buyer/users liability to perform any further checks that may be required under the aforementioned legislation.

We further warrant that all our premises, equipment, machinery and other apparatus of whatever nature, used in connection with the manufacture, storage, supply and sale of food comply with the standards of cleanliness and hygiene prescribed by the said Acts and / or regulations made thereunder.

GRANULATION FOR MACAROON DESICCATED COCONUT.

When 100 grams sample is shaken for 5min on a Ro-Tap testing sieve shaker equipped with they US. standard Testing Sieve Nos, 10,14,16,20,30 and Pan, results shall fall within the limits:-

Screen No	% Retained on	
	Min	Max
10	0	0
14	1	10
16	13	26
20	33	50
30	21	32
Pan	2	12

GRANULATION FOR MEDIUM DESICCATED COCONUT.

When 100 grams sample is shaken for 5min on a Ro-Tap testing sieve shaker equipped with they US. standard Testing Sieve Nos, 8,14,16 and Pan, results shall fall within the limits:-

Screen No	% Retained on

	Min	Max
8	1	10
14	60	xx
16	xx	xx
Pan	xx	20

GRANULATION FOR COURSE MEDIUM DESICCATED COCONUT.

When 100 grams sample is shaken for 5min on a Ro-Tap testing sieve shaker equipped with they US. standard Testing Sieve Nos, 7,14,18 and Pan, results shall fall within the limits:-

Screen No	% Retained on	
	Min	Max
7	-	4
14	56	-
16	-	32
Pan	xx	8

GRANULATION FOR COCONUT FLOUR.

When 100 grams sample is shaken for 5min on a Ro-Tap testing sieve shaker equipped with they US. standard Testing Sieve Nos, 18 and 20 results shall fall within the limits:-

Screen No	% Retained on	
	Min	Max
18	100	100
20	80	80

		Nominal Sieve Opening		Nominal Wire Diameter		Suggested Screen
Standard	Alternate	mm	inches	mm	inches	
4.75 mm	No. 4	4.75	0.187"	1.54	.0606	4 Mesh
4.0 mm	No. 5	4.00	0.157"	1.37	.0539	5 Mesh
3.35 mm	No. 6	3.35	0.131"	1.23	.0484	6 Mesh
2.80 mm	No. 7	2.80	0.131"	1.10	.0433	7 Mesh
2.36 mm	No. 8	2.36	0.093"	1.00	.0393	8 Mesh
2.00 mm	No. 10	2.00	0.078"	0.90	.0354	9 Mesh
1.70 mm	No. 12	1.70	0.066"	0.81	.0318	10 Mesh
1.40 mm	No. 14	1.40	0.055"	0.72	.0285	12 Mesh
1.18 mm	No. 16	1.180	0.0464"	0.650	.0255	14 Mesh
1.00 mm	No. 18	1.000	0.0393"	0.580	.0228	16 Mesh
850 µm	No. 20	0.850	0.0334"	0.510	.0200	20 Mesh
710 µm	No. 25	0.710	0.0279"	0.450	.0177	24 Mesh
600 µm	No. 30	0.600	0.0236"	0.390	.0153	28 Mesh
500 µm	No. 35	0.500	0.0196"	0.340	.0133	32 Mesh
425 µm	No. 40	0.425	0.0167"	0.290	.0114	35 Mesh

355 µm	No. 45	0.355	0.0139"	0.247	.0097	42 Mesh
300 µm	No. 50	0.300	0.0118"	0.215	.0084	48 Mesh
250 µm	No. 60	0.250	0.0098"	0.180	.0070	60 Mesh
212 µm	No. 70	0.212	0.0083"	0.152	.0059	65 Mesh
180 µm	No. 80	0.180	0.0070"	0.131	.0051	80 Mesh
150 µm	No. 100	0.150	0.0059"	0.110	.0043	100 Mesh
125 µm	No. 120	0.125	0.0049"	0.091	.0035	115 Mesh
106 µm	No. 140	0.106	0.0041"	0.076	.0029	100 Mesh
90 µm	No. 170	0.090	0.0035"	0.064	.0025	170 Mesh
75 µm	No. 200	0.075	0.0029"	0.053	.0020	200 Mesh
63 µm	No. 230	0.063	0.0024"	0.044	.0017	250 Mesh
53 µm	No. 270	0.053	0.0020"	0.037	.0014	270 Mesh
45 µm	No. 325	0.045	0.0017"	0.030	.0012	325 Mesh
38 µm	No. 400	0.038	0.0015"	0.025	.0010	400 Mesh
32 µm	No. 450	0.032	0.0012"	0.0011	.0004	
25 µm	No. 500	0.025	0.00098"	0.0010	.000039	
20 µm	No. 635	0.020	0.00078"	0.0008	.000031