

PRODUCT SPECIFICATION

FREEWORLD TRADING LIMITED



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PRODUCT DESCRIPTION:	Macadamia Nuts, Pasteurised. All Styles. South African
PRODUCT CODE:	0535
DATE ISSUED:	20.03.2026
DATE REVIEWED:	
REVISION NUMBER:	7

SUPPLIER NAME:	Freeworld Trading Limited
SUPPLIER ADDRESS:	21 Annandale Street Edinburgh EH7 4AW
TELEPHONE NUMBER:	0131 557 5600
EMAIL ADDRESS:	quality_control@freeworld-trading.co.uk sales@freeworld-trading.co.uk logistics@freeworld-trading.co.uk

CONTACT TECHNICAL:	Karen Greenhorn
POSITION HELD:	Quality Control
EMAIL ADDRESS	karen@freeworld-trading.co.uk

Commodity Buyer	Ishan Das
Email Address	ishan@freeworld-trading.co.uk

1.00 PRODUCT INFORMATION	
Product Description	Macadamia Nuts
Grade/Variety	Various
Pack weight/format	25lb
Packaging materials	Low oxygen permeable bag, metallic. Cardboard carton
Shelf-life from production	24 months

2.00 INGREDIENT BREAKDOWN					
Ingredient	% at Recipe bowl stage	% in Final Product	Variety/Grade	Country of Origin	Country Of Manufacture
Macadamia Nuts		100		South Africa	South Africa

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3.00 PRESERVATIVES AND PROCESSING AIDS		
E. Number	Name	Maximum Limit
	N/A	
If processing aid state which process it aids and how.		

4.00 SEASONAL VARIATION

5.00 GENETIC MODIFICATION			
GENETICALLY MODIFIED ORGANISMS	YES	NO	IF YES WHICH INGREDIENT
1. Does the product or any of its ingredients contain any genetically modified material – whether viable or not?		✓	
2. Is the product or any of its ingredients produced from, but not containing, any genetically modified material – whether viable?		✓	
3. Has the product or any of its ingredients been significantly changed as a consequence of the use of genetic modification?		✓	
4. Have genetically modified organisms been used as processing aids or additives to produce processing aids or additives used in conjunction with the production of the food or any of its ingredients?		✓	

6.00 IRRADIATION	
Has the product or any of its components been irradiated?	No

7.00 ORGANOLEPTIC PROPERTIES	
Provide a full description of the organoleptic properties of the PRODUCT.	
Appearance:	Uniform, normal, natural creamy, beige coloured nut
Flavour and Aroma:	Typical of macadamia with no off taints or odours
Texture:	Firm and crunchy

Organoleptic properties are obviously dependent on the crop and harvesting conditions of the current year.

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8.00 NUTRITIONAL INFORMATION		
Parameter	Value (per 100grams)	Source
Energy Kj / kcal	3096.3/751.84	USDA (modified by Regulation (EU) No 1169/2011)
Fats	75.8	
Of which:	-	
-saturated	12.1	
-monounsaturated	58.9	
-polyunsaturated	1.5	
Carbohydrates (total)	13.8	
Of which:	-	
-sugars	4.57	
-fibre	8.6	
Protein	7.91	
Sodium (mg)	5	
Salt (g)	0.013	

9.00 PRODUCT SUITABILITY		
Dietary Requirement	Yes/No	Certified Yes/No
Kosher	Yes	Yes
Halal	Yes	Yes
Vegetarian	Yes	No
Vegan	Yes	No

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10.00 ALLERGENS				
Product	In the product (Y/N)	Within the facility (Y/N)	On the same production line (Y/N)	Comments
Peanuts / peanut derivatives	No	No	No	
Nut / nut derivatives	Yes	Yes	Yes	Macadamia nuts
Sesame seeds / sesame seed derivatives	No	No	No	
Mustard / mustard products	No	No	No	
Milk / milk derivatives	No	No	No	
Egg / egg derivatives / albumen	No	No	No	
Gluten	No	No	No	
Soya / soya derivatives	No	No	No	
Lupin / lupin derivatives	No	No	No	
Fish / fish derivatives	No	No	No	
Crustaceans	No	No	No	
Molluscs	No	No	No	
Sulphur Dioxide and sulphites	No	Yes	Yes	
Celery	No	No	No	

Nut and nut derivatives includes: almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nuts and macadamia nut.

Gluten includes: wheat, rye, barley, oats, spelt, kamut, or their hybrid strains.

11.00 CHEMICAL ANALYSIS	
Parameter	Specification Limits
Moisture	<1.5 ± 0.3%
Peroxide Value	3 meq/kg
Free Fatty Acids	0.5%
Aflatoxin	Total <4ppb, B1 <2ppb
Pesticides	As per EU/UK Legislation
Heavy Metals	As per EU/UK Legislation

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12.00 MICROBIOLOGY	
Microbes	Typical Levels
Total Viable Count	<10,000 cfu/g
Coliforms	<100 cfu/g
Escherichia Coli	<10 cfu/g
Yeasts	<500 cfu/g
Moulds	<500 cfu/g
Salmonella	Absent in 25gms

13.00 PHYSICAL ANALYSIS			
Blemishes & Deviations (Defects including insect damage & germination)	1%	Maximum	Visual
Blemishes & Deviations Styles 4OT, 5 - 7 (Defects including insect damage & germination)	3%	Maximum	Visual
Blemishes & Deviations (Discolouration (onion ring/dark) & immaturity)	2%	Maximum	Visual
Foreign Material (Metal)	None		Metal Detector
Foreign Material (Other)	None		Visual
Loose Shell Pieces (Natural)	2 pieces no larger than style dimension / 100kg	Maximum	Visual
Loose Shell Pieces (Diced)	1 piece no larger than style dimension / 100kg	Maximum	Visual
Impacted shell	Not more than 1% kernels by weight (1x1x1mm)	Maximum	Visual
Traces of shell or Shell Dust may be present in/on the product		Machine Sort	
<i>This is an all-natural, agricultural product, we cannot guarantee that zero naturally occurring foreign matter will be present.</i>			
Infestation (Live Insect / Rodent)	None	Maximum	Visual

14.00 COUNT/SIZE				
Physical Requirements	Composition	Dimension (mm)	Tolerance (%)	Method
Style 0	-	≥20	≥95% Wholes	Sieving (Round opening 20mm)
Style 1	-	16 – 20	≥90% Wholes	Sieving (Round opening 16mm)
Style 1S	-	13 – 16	≥90% Wholes	Sieving (Round opening 13mm)
Style 2L	50% Style 1 and 50% Style 4XL	16 – 20	≥50% Wholes/50% Halves	Sieving (Round opening 16mm)
Style 2	50% Style 1S and 50% Style 4L	13 – 16	≥50% Wholes/50% Halves	Sieving (Round opening 13mm)
Style 4L	-	13 – 16	≥80% Halves	Sieving (Round opening 13mm)
Style 4XL	-	≥16	≥90% Halves	Sieving (Round opening)



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Style 40T	60% Style 4, 20% style 5, 10% style 6, 10% style 7	Natural blend 3 – 13 mm (10% 3 – 6 mm; 10% 6 – 8 mm; 20% 8 – 10 mm; 60% 10 – 13 mm)	Sieving (Round opening)
Style 4	-	10 – 13	Natural blend Sieving (Round opening 10mm)
Style 5	-	8 – 10	Natural blend Sieving (Round opening 8mm)
Style 5L	-	8 – 13	Natural blend Sieving (Round opening)
Style 6	-	6 – 8	Natural blend Sieving (Round opening 6mm)
Style 7	-	3 – 6	Natural blend Sieving (Round opening 3mm)
Style 1C	-	> 16	≥90% Wholes Sieving (Round opening 16mm)
Style 1CS	-	13 - 16	≥90% Wholes Sieving (Round opening 13mm)
Style 4C (Darks/Onion ring)	-	-	≥90% Halves Hand sorting
Style 5D	-	8 – 13	Diced Sieving (Square opening 8mm)
Style 6D	-	6 – 8	Diced Sieving (Square opening 6mm)
Style 7D	-	3 – 6	Diced Sieving (Square opening 3mm)
Style 8D	-	<3	Diced Sieving (Round opening)

Note: Total size variance of ±5% allowed per style.

Dimension/Sieve (mm) determined by measurement by caliper along the maximum diameter of the equatorial section of the whole nut or by widest diameter of the designated style size requirements, as per:

https://unece.org/fileadmin/DAM/trade/agr/standard/dry/Standards/DDP23_MacadamiaKernels_2010_e.pdf, page 5:

Paragraph 1: Provisions concerning sizing.

15.00 RECOMMENDED STORAGE CRITERIA

Storage Conditions:

In clean, dry, cool place, away from heat and direct sunlight.

In order to preserve maximum freshness and prevent infestation FWT recommend storing our products in cool store at <10C

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16.00 OBLIGATIONS UPON THE PART OF THE SUPPLIER & TRADING TERMS OF FREEWORLD TRADING.

Suppliers:

The supplier must comply with all relevant United Kingdom and European Community Legislation and all relevant legal and food safety criteria. The supplier must agree to comply with Freeworld Trading Standard Conditions of Supply.

The supplier is responsible for informing Freeworld Trading in writing and a minimum of one calendar month in advance of any proposed change of formulation, manufacturing process or packaging materials and changes in the origin places of process of any materials used to produce the product to be supplied to Freeworld Trading. No change is to be made without the prior knowledge and prior written agreement of Freeworld Trading.

Customers:

1. No claims entertained after 7 days from delivery.
2. Any overdue amounts are liable to interest charged at 3% over base rate per month.
3. Title and goods remain with Freeworld Trading Ltd. until the purchase price is paid in full.
4. The risk in the goods shall pass to the buyer at the time of delivery where carriage is made by independent carrier, then at the time of collection by this carrier. or where the goods are sold ex-warehouse at the time the buyer is notified that the goods are released for collection.
5. If the goods or any part of thereof supplied under the contract are processed or altered in any way by the buyer or any other agent, the quality of the goods shall be deemed acceptable by the buyer. In addition all customers quality control checks are to be completed on the entire load prior to use in application

FOR AND ON BEHALF OF FREEWORLD TRADING

NAME: (Technical)	Karen Greenhorn
POSITION HELD:	Quality Control
TECHNICAL SIGNATURE	<i>Karen Greenhorn</i>
DATE:	20.03.2026
Name: (Buyer)	Ishan Das
Signature:	<i>Ishan Das</i>

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