



Product Specification Sheet

Olam International Ltd.
7 STRAITS VIEW, MARINA ONE
EAST TOWER, #20-01,
SINGAPORE 018936

Walnut Kernel QUARTERS

GENERAL INFORMATION

Description	Walnuts kernel which has been hand-cracked and broken into quarters and medium pieces.
Composition	100% Walnut kernel.
Origin	USA, California
Varieties	Chandler, Serr, Tulare and others.

QUALITY PARAMETERS

	Parameter	Specification	UOM	Test method
Physical	Slight / Slight shriveling	2.0	%Max	As per USDA standard and per visual checking of DFA inspection Manual
	Dark stain/ Shriveling	2.0	%Max	
	Inactive Fungus	2.0	%Max	
	Insect damage	1.0	%Max	
	Mold/ Rancidity	1.0	%Max	
	Decay	1.0	%Max	
	Oily	2.0	%Max	
	Living insect/Infestation	None	%Max	
	Total defects	8.0	%Max	
	Darker color (LA)	15 (included 2% amber)	%Max	
	Darker than amber (black)	None	%Max	
	Light color	85	%Min	
	Foreign Impurities (hull, shell, septum)	5.0 (per 10 kgs)	Unit Max	
	Foreign matter (hair, glasses, woods, metal fragments, ...)	None	Unit Max	
Size	Quarters: Pass through sieve 12.5 mm to 32 mm.	74	%Max	Sieve Shaker
	Lower size	26	%Max	
	Over size	None	%Max	
Sensory	Flavor	Good typical walnut taste, free from rancidity and free of foreign smell, ...		SOP sensory in-house
	Taste			
	Texture	Typical of product		
	Appearance			
Chemical	Moisture	5.0	% Max	IR/Halogen Moisture Analyzer
	FFA (as linoleic acid)	1.0	% (w/w) Max	ISO 660: 2009

On Behalf of Olam International Limited.

Prepared By: <i>Ms. Do Thi Ngoc Lan</i>	Approved By: <i>Mr. Satbir Singh</i>	Version No	Issued date	Page
Senior QA Supervisor	Central Quality manager	00	14 - May - 2020	2/2
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	Peroxide Values	2.0	Meq/kg fat Max	ISO 3960: 2007
	Aflatoxin B1	2.0	ppb Max	AOAC 2005.08
	Aflatoxin B1 + B2 + G1 + G2	4.0	ppb Max	ISO 160502: 2003 or equivalent
Microbiological	TPC	5.0 x 10 ⁴	cfu/g Max	Petrifilm - AOAC
	Coliforms	1.0 x 10 ¹	cfu/g Max	
	E. coli	<10	cfu/g Max	
	Yeast	1.0 x 10 ³	cfu/g Max	
	Mold	1.0 x 10 ³	cfu/g Max	
	Enterobacteriaceae	1.0 x 10 ²	cfu/g Max	
	Salmonella	Absent in 25 g	cfu/g	ISO 6579 - 1: 2017

NUTRITIONAL INFORMATION (Value per 100g)

Energy	654 kcal/ 2738 kJ	As per USDA standard reference database for nutrients
Total lipid (fat)	65.21 g	
Fatty acids, total saturated	6.126 g	
Protein	15.23 g	
Carbohydrate, by difference	13.71 g	
Sugars, total	2.61 g	
Fiber, total dietary	6.7 g	
Sodium	2 mg	
Calcium	98 mg	
Potassium	441 mg	
Iron	2.91 mg	
Vitamin D	0.0 IU	

CERTIFICATION & DECLARATION

BRC	Yes
FSMA	Yes
GFSI	Yes

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Kosher	Yes
Halal	Yes
Allergen	Walnut is processing in the facility only.
GMO	No
Irradiation	No
Ionization	No
Free from MSG	Yes
Free from artificial coloring	Yes
Free from artificial flavoring	Yes
Suitable for:	
Vegan / Vegetarian	Yes
Lacto / lacto-ovo	Yes
PACKING STORAGE, SHELF LIFE, LABELLING & TRANSPORT	
Shelf life	10 Months from the date of packing.
Storage conditions	Cool dry clean place (< 10 Deg C) and R.H 50-60%
Packing unit	Laminated bag in carton box.
Primary packaging	Food grade bags. Vacuumed pack with nitrogen flushed.
Secondary packaging	Cartons 395 x 295 x 245, 488 x 325 x 186 (mm) & per customer's request.
Labelling	As per customer's request.
Net weight	2x5kgs, 1x10kgs or as customer's request.
Manufacturer	Olam Vietnam Ltd.

**CONTROLLED
DOCUMENT**

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