

SPECIFICATION SHEET

Prepared and approved by Agromate Ltd. 2013.

Sunflower kernels – “Bakery grade”



Manufacturer: Agromate Ltd.
Density: 0.600 kg/m³

Product description

Peeled sunflower seeds (*Helianthus annuus*). 100% natural product.

Used raw ingredients (composition):

Sunflower seeds, varieties suitable for hulling.

Appearance - solid, not brittle and dry seeds

Preparation instructions

Sunflower kernels can be consumed both processed and unprocessed.

Disclaimer

Our products are produced and controlled using the most modern techniques. Despite the utmost care that we devote to our products, this natural product occasionally can contain a leaf, stone or plant rest.

We declare that the ingredients listed in this specification are not genetically modified according to (EC) № 1829/2003 and 1830/2003.

Nutritional values

Description	Value	Unit	Method	%ADI
Energy	2677.0	kJ/100g	NEVO	
Energy	647.0	kcal/100g	NEVO	
Fat total	56.5	g/100g	NEVO	
Saturated fatty acids	6.6	g/100g	NEVO	
Mono-unsaturated fatty acids	12.2	g/100g	NEVO	
Poly-unsaturated fatty acids	35.7	g/100g	NEVO	
Trans fatty acids	0.0	g/100g	NEVO	
Carbohydrates	13.0	g/100g	NEVO	
Sugar	0.0	g/100g	NEVO	
Polyolen	0.0	g/100g	NEVO	
Starch	13.0	g/100g	NEVO	
Protein	18.0	g/100g	NEVO	
Dietary fiber, total	7.4	g/100g	NEVO	
Sodium	62.0	mg/100g	NEVO	
Calcium	79.0	mg/100g	NEVO	9
Iron	4.9	mg/100g	NEVO	35
Potassium	660.0	mg/100g	NEVO	
Magnesium	363.0	mg/100g	NEVO	121
Phosphor	640.0	mg/100g	NEVO	80
Zinc	5.0	mg/100g	NEVO	33
Copper	1.75	mg/100g	NEVO	
Vitamin B1	1.62	mg/100g	NEVO	115

Vitamin B2 (Riboflavin)	0.17	mg/100g	NEVO	10
Vitamin B6 (Pyrodoxin)	0.80	mg/100g	NEVO	40
Vitamin B11 (Folic Acid)	0.0	µg/100g	NEVO	0
Vitamin B12 (Cobalamin)	0.80	µg/100g	NEVO	
Vitamin E (Tocoferol)	37.8	mg/100g	NEVO	378
Vitamin B1 (Riboflavin)	1.62	mg/100g	NEVO	
Water/Moisture – up to	8.0	g/100g	NEVO	

Allergens

Allergens according to EU directives	In recipe	Via cross contamination
Cereals containing gluten	Absent	No
Wheat	Absent	No
Rye	Absent	No
Barley	Absent	No
Oat	Absent	No
Crustaceans	Absent	No
Egg	Absent	No
Fish	Absent	No
Peanuts	Absent	No
Soybeans	Absent	No
Milk	Absent	No
Nuts	Absent	No
Almond	Absent	No
Hazelnut	Absent	No
Walnut	Absent	No
Cashew	Absent	No
Pecan Nut	Absent	No
Brazil Nut	Absent	No
Pistachio	Absent	No
Macadamia Nut	Absent	No
Celery	Absent	No
Mustard	Absent	No
Sesame seed	Absent	No
Sulphites	Absent	No
Lupin	Absent	No
Mollusks	Absent	No

Leda allergens

Allergens according to LEDA list	In recipe/ Via cross contamination
Lactose	Absent
Cocoa	Absent
Glutamate	Absent
Chicken	Absent
Coriander	Absent
Maize	Absent
Pulse	Absent
Beef	Absent
Pork	Absent
Carrot	Absent

Allergen disclaimer

Some allergens in the product can exist out of impurities containing foreign seeds (for ex. maize, wheat)

Sensory characteristics

Sensory characteristic	Value
Appearance	dry kernels, oval, not stuck to each other
Odor	of fresh sunflower seeds without the smell of stale, mildew and other extrinsic odors
Color	gray to light gray
Taste	neutral, nutty

Physical/Chemical characteristics

Physical/Chemical characteristic	Value	Unit	Note
Damaged kernels (broken)	< 7	%	Smaller than ½ kernel
Skin, peel	< 0.15	%	Unpeeled, not fully peeled (larger than ¼ peel) and loose peel
Leaf and plant residues	< 0.04	%	
Density	0.60	kg/dm ³	
Ph	6 - 8		
Moisture	< 8	%	
Purity	> 99.95	%	
Sand	< 0.01	%	
Metal detection	> 1.5	mm	Maximum sensitivity Fe/non Fe ball

Microbiological characteristics

Characteristic	Value	Unit
Enterobacteria	< 100.000	CFU/g
Salmonella	Absent	CFU/g
Escherich. Coli	< 10	CFU/g
Moulds	< 10.000	CFU/g
Yeasts	< 10.000	CFU/g
Aflatoxins - B1	< 2,0	µg/kg
Aflatoxins B1 + B2 + G1 + G2	< 4,0	µg/kg

Pesticides - according to the standards of Ordinance 31

Type of packaging and transportation: Three-ply paper bags 5 - 50 kg, "Big Bag", polyethylene bags	EP 1935/2004 № 3 specific requirements for materials and articles other than plastics
Product durability and storage conditions: Storage conditions: cool, dry, dark Shelf life-12 months from date of manufacture.	Trade agreement №1/2011
Labeling: According to the regulations According to customer requirements.	Ordinance for the presentation and labeling of food products
Is special control required on expedition: not required	
Accompanying documents required: Specification and a declaration of conformity of the product.	