



NHR ORGANIC OILS  
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## *Product Specification*

# **Organic Amaranth Seed Oil**

*(Amaranthus caudatus)*

<b>1. BASIC INFORMATION</b>	
PRODUCT NAME	Organic Amaranth Seed Oil 100%
PRODUCT DESCRIPTION	Natural oil obtained by a highly sensitive method of cold pressing of organic amaranth seeds (sorted purity 99,99%), temperature up to 37°C. Amaranth oil is rich of squalene and unsaturated fatty acids- mainly linoleic acid. Amaranth oil is a natural product which contains natural Tocopherols.
TYPE	COLD PRESSED OIL
USE	Amaranth oil is widely used in pharmaceutical and cosmetic industry for its healing and protective functions.
COLOUR	Clear liquid oil with gold color
ODOUR	Slightly characteristic odor
ALLERGENS	Allergens free material
GMO	Not genetically modified
SOLUBILITY	Insoluble in water / soluble in fats

<b>2. PHYSICAL</b>	
ACID NUMBER *	4 mg KOH/g
PEROXIDE NUMBER *	4 mmol O <sub>2</sub> /kg
IODINE NUMBER	100-140 g I/100g
SQUALENE	6-8 %
NATURAL VITAMINE E	60-70 mg/100g
SATURATED FA	app. 25 %
MONO-UNSATURATED FA	app. 25 %
POLY-UNSATURATES FA	app. 50 %
PALMITIC ACID (C16:0)	15-25 %
OLEIC ACID (C18:1 n-9)	15-30 %
LINOLEIC ACID (C18:2 n-6)	40-50 %
STEARIC ACID (C18:0)	2-3 %
OTHER ACIDS	3-6 %
*Max. value	

<b>3. BACTERIOLOGICAL SPECIFICATION</b>	
TOTAL VIABLE COUNT	Max. 10 CFU/g
Salmonella	unacceptable in 25 g
E. Coli	unacceptable in 1 g
Staphylococcus Aureus	unacceptable in 0,1 g

<b>4. HEAVY METALS</b>	
CADMIUM	Max. 1 ppm
MERCURY	Max. 1 ppm
ARSENIC	Max. 1 ppm
LEAD	Max. 1 ppm

<b>5. NUTRITIONAL VALUES</b>	
ENERGY	900 kcal
CHOLESTEROL	0
PROTEIN	0
CARBOHYDRATE	0
DIETARY FIBER	0
Na	0
COMMENT: Light mild cloud incurred by excretion of wax-like solids does not influence quality.	

ADDITIVES	Only on request by the customer
LEGISLATIVE	Regulation No. 1223/2009
EXPECTED APPLICATION	PHARMACEUTICAL, COSMETIC and FOOD INDUSTRY
RECOMMENDED STORAGE	Original packaging, storage temperature 20-25 °C
PACKAGING	Canisters 5 - 200 l (metal or blue plastic for oil)
STORAGE STABILITY	Approx 12 months since production. At room temperature clear gold liquid.(Cold stocking can cause a mild cloud of oil, which does not influence its quality- could be removed by warm up to 25°C, for duration of diathermy for minimal 12 hours in original closed packaging).
ORIGIN	CZECH REPUBLIC