Specification Refined deodorized Sunflower Oil Packaged in bottles of 5,0 l grade A for export purposes GOST 1129-2013

Name	Maximum allowable levels according to regulatory documents (GOST 1129-2013)	Specification of "NMEZ" LLC
Description	Refined deodorized sunflower oil 1st grade, winterized	
Biological, chemical and physical characteristics related to food safety	Benz(a)pyrene content is not more than 0,002 mg/kg (2 microgram/kg)	Benz(a)pyrene content is not more than 0,002 mg/kg (2 microgram/kg)
Characteristics of sunflower oil	Foreign additives – none Mineral oil - none	Foreign additives – none Mineral oil - none
	Transparency: transparent without sediment	Transparency: transparent without sediment
	Cold test: withstands the test at a temperature of 0°C for 5.5 hours	Cold test: withstands the test at a temperature of 0°C for 5.5 hours
	Smell and taste: odorless, insipid taste	Smell and taste: odorless, insipid taste
	Color number, mg of iodine, not more than 10	Color number, mg of iodine, not more than 3
	Lovibond color number - not standardized	Lovibond color number - 1.5 red, but not more than 2.0
	Acid number, mg KON/g, not more than 0,4	Acid number, mg KON/g, not more than 0,3
	Mass fraction of non-fat impurities, %, none	Mass fraction of non-fat impurities, %, none
	Mass fraction of phosphorus containing substances,%, none	Mass fraction of phosphorus containing substances,%, none
	Mass fraction of moisture and volatile substances, %, not more than 0,10	Mass fraction of moisture and volatile substances, %, not more than 0,05
	Peroxide number, mol of active oxygen/kg, not more than 10,0	Peroxide number, millimole of active oxygen/kg, not more than 2 (at the time of bottling), not more than 10 at the end of the shelf life
	Iodine number 118 - 141	Iodine number 118 - 141
	Saponification number 188 – 194 mg KON/g	Saponification number 188 – 194 mg KON/g
	Unsaponifiable substances not more than 1,5%	Unsaponifiable substances not more than 1,5%
	The content of free fat acids in terms of oleic acid is not more than 0,2%	The content of free fat acids in terms of oleic acid is not more than 0,15
	Residual hexane - none	Residual hexane - none
	Refractive index 25C 1,4736 – 1,4762	Refractive index 25C 1,4736 – 1,4762
	Density at 20°C 0,918 – 0,923	Density at 20°C 0,918 – 0,923
	Cadmium – not more than 0,05 mg/kg	Cadmium – not more than 0,05 mg/kg
	Lead – not more than 0,1 mg/kg	Lead – not more than 0,1 mg/kg
	Arsenic – not more than 0,1 mg/kg	Arsenic – not more than 0,1 mg/kg
	Mercury – not more than 0,03 mg/kg	Mercury – not more than 0,03 mg/kg
	Iron – not more than 1,5 mg/kg	Iron – not more than 1,5 mg/kg
	Copper – not more than 0,1 mg/kg	Copper – not more than 0,1 mg/kg
	Hexachlorocyclohexane (alpha, beta, gamma isomers) – not more than 0,2 mg/kg	Hexachlorocyclohexane (alpha, beta, gamma isomers) – not more than 0,2 mg/kg
	DDT and its metabolites – not more than 0,2 mg/kg	DDT and its metabolites – not more than 0,2 mg/kg
	Mycotoxins (aflatoxin B-1) – not more than 0,005 mg/kg	Mycotoxins (aflatoxin B-1) – not more than 0,005 mg/kg
	Dimethoate – up to 0.05 mg/kg	Dimethoate – up to 0.05 mg/kg
	Diquat – up to 0.05 mg/kg	Diquat – up to 0.05 mg/kg
	Cletodim - no more than 0.1 mg / kg	Cletodim - no more than 0.1 mg / kg
	Fenthion – up to 0.01 mg/kg	Fenthion – up to 0.01 mg/kg
	Haloxyfop-R-methyl – up to 1 mg/kg	Haloxyfop-R-methyl – up to 1 mg/kg
	Procymidone – up to 0,5 mg/kg	Procymidone – up to 0,5 mg/kg
	Chlordane – up to 0.05 mg/kg	Chlordane – up to 0.05 mg/kg
	Prochloraz and ferromanganese – up to 1 mg/kg	Prochloraz and ferromanganese – up to 1 mg/kg

	Oxycodone – up to 0.01 mg/kg	Oxycodone – up to 0.01 mg/kg
	Permethrin – up to 1 mg/kg	Permethrin – up to 1 mg/kg
	Caesium-137 – not more than 40 Bq/kg	Caesium-137 – not more than 40 Bq/kg
	Strontium-90 – not more than 80 Bq/kg	Strontium-90 – not more than 80 Bq/kg
	C12:0 lauric acid - none	C12:0 lauric acid - none
	C14:0 Myristic acid – up to 0,2%	C14:0 Myristic acid – up to 0,2%
	C16:0 Palmitic acid – 5,0 – 7,6%	C16:0 Palmitic acid – 5,0 – 7,6%
	C16:1 Palmitooleic acid – up to 0,3%	C16:1 Palmitooleic acid – up to 0,3%
	C17:0 Margaric acid ≤ 0,2	C17:0 Margaric acid ≤ 0,2
	C17:1 Heptadecenoic acid ≤ 0,1	C17:1 Heptadecenoic acid ≤ 0,1
	C18:0 Stearic acid – 2,7 – 6,5%	C18:0 Stearic acid – 2,7 – 6,5%
	C18:1 Oleic acid – 14,0 – 39,4%	C18:1 Oleic acid – 14,0 – 39,4%
	C18:2 Linoleic acid – 48,3 – 77,0	C18:2 Linoleic acid – 48,3 – 77,0
	C18:3 Linolenic acid – up to 0,3%	C18:3 Linolenic acid – up to 0,3%
	C20:0 Arachidic acid – up to 0,5%	C20:0 Arachidic acid – up to 0,5%
	C20:1 Gondoinic acid – up to 0,3%	C20:1 Gondoinic acid – up to 0,3%
	C22:0 Behenic acid – 0,3 – 1,5%	C22:0 Behenic acid – 0,3 – 1,5%
	C22:1 Erucic acid – up to 0,3%	C22:1 Erucic acid – up to 0,3%
	C22:2 Dodecadiene acid ≤ 0,3	C22:2 Dodecadiene acid ≤ 0,3
	C24:0 Lignoceric acid – up to 0,5%	C24:0 Lignoceric acid – up to 0,5%
Characteristics of sunflower oil	GMO free	
Shelf life and storage conditions	Shelf life 18 months (from production date). Store in covered dark room (places) away from heat and light, store closed.	
Packaging	Bottles made of polyethylene terephthalate with sunflower oil are packed in corrugated cardboard boxes, formed on pallets and sealed with stretch film.	
Food safety labeling and/or instructions for use, preparation and intended use	Complies with Russian Standard GOST1129-2013 Intended for direct consumption.	
Method (s) of distribution and delivery	The product is being transported by all types of transportation in accordance with the requirements of the legislation on technical regulation and the terms of the contract for the product supply. When leaving the territory of "NMEZ" LLC, an employee of the private security company registers in the log the time of departure of the transport with the products. The products for transportation must meet the quality requirements of the established standard, GOST. The delivery time of the cargo is calculated from the moment of the end of loading and paperwork until the moment the transport arrives at the consignee.	