

	PRODUCT SPECIFICATION WINTEREZED DEODORIZED REFINED SUNFLOWER OIL		Revision: 001
	CROK d.o.o info@crok.si	www.crok.si	Dated: 01/01/23

- 1. Technical description of the products:** Refined sunflower oil
- 2. Product description.** Product from the refining of raw oil degummed sunflower.
- 3. Composition** 100% refined sunflower oil, without additives.
- 4. Food uses:** food product for human consumption or as an additive in the production of food for human consumption.
- 5. Instructions for its handling, preparation and use.** The product handling tasks must be carried out maintaining the safety conditions of the product. It does not have special requirements of preparation for its consumption. It does not have special requirements of use for its consumption.
- 6. Distribution Methods.** It is marketed containers contained in boxes of corrugated cardboard and distributed in land transport with sanitary cargo compartments: clean, dry, free of odors. The transports must be enabled by a sanitary organism for the transport of alimentary substances.
- 7. Storage conditions.** It is stored in PET containers suitable for use in food, closed and at room temperature. It should be kept in a cool, dry place and protected from sunlight.
- 8. Shelf life:** 24 month.
- 9. Inappropriate uses.** Does not have.

10. QUALITY CHARACTERISTICS

Appearance: Viscous, clean and translucent liquid free of sediment and / or foreign particles

Taste: Smooth, with a tenuous flavor characteristic of the seed of origin.

Odour: Soft, pleasant, free from rancidity.

Test report:

Criteria	Regulatory Document	Standard
Transparency	GOST (State Standard) 5472-50 "Vegetable oils. Determination of colour, flavour and transparency"	transparent without sediment
Flavour and odour	GOST 5472-50 "Vegetable oils. Determination of colour, flavour and transparency"	Flavour of non-specific deodorized oil, without odour
Colour number, mg iodine, not exceeding	DSTU (State Standard of Ukraine) 4568:2006 "Oils. Methods of colour number determination"	10
Iodine number 12/100g	DSTU 4569:2006	125-145
Acid number, mg KOH/g, not exceeding	DSTU 4350:2004 "Oils. Methods of acid number determination", ISO660	0.25
Peroxide number, ½ O ₂ mmole/kg, not exceeding	DSTU 4570:2006 "Oils. Methods of peroxide number determination", ISO3960	At the moment of product release – 2.0
Mass content of phosphorus-containing substances	DSTU 7082:2009 "Oils. Methods of determination of phosphorus-containing substances by weight"	None



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Mass fraction of Nonoleaginous impurities, %	DSTU 5063:2008 "Oils. Methods of determination of fat-free lean impurities and sediment"	None
Mass fraction of Moisture and volatile matter, %, not exceeding	DSTU 4603:2006 "Oils. Methods of determination of moisture and volatile matter by weight"	0.10
Content of waxes and wax-like substances (cold test)	DSTU 4602:2006 "Oils. Methods of wax-like substances determination"	None
Soap content (qualitative test)	DSTU 6048:2008 "Oils. Methods of determining the soap concentration"	None
Mass fraction of Benzo(a)pyrene, mg/kg	ISO 22959:2009	Not exceeding 2.0
The content of genetically modified organisms	DSTU ISO 21569	-
Mass fraction of Cadmium, mg/kg	GOST 30178-96	Not exceeding 0.05
Mass fraction of Arsenic, mg/kg	Ts1305:2004	Not exceeding 0.1
Mass fraction of Lead, mg/kg	GOST 30178-96	Not exceeding 0.1
Mass content of Zinc, mg/kg	GOST 30178-96	Not exceeding 5.0
Mass content of Ferrum, mg/kg	GOST 30178-96	Not exceeding 5.0
Mass content of Copper, mg/kg	GOST 30178-96	Not exceeding 0.5
Mass content of Mercury, mg/kg	MBB 081/12-0270-2006	Not exceeding 0.03

11. SAFETY

No	Analysis Items and Unit	Limited value	Test Method
1	Plumbum(mg/kg)	≤0.1 mg/kg	Ts13805:2004
2	Arsenic(mg/kg)	≤0.1 mg/kg	Ts13805:2004
3	Acid value in KOH (mg/g)	≤1.5 mg/g	ISO660
4	Peroxide value (mmol/kg)	≤7.5 mmol/kg	ISO3960
5	Residual solvents(mg/kg)	ND	ISO3960
6	Aflatoxin B1(ug/kg))	≤10 ug/kg	In house Method lab Sop830
7	Dimethoate(mg/kg)	≤0.05 mg/kg	TS EN 12393-1/2/3-Quechers
8	Diquat(mg/kg)	≤0.05 mg/kg	TS EN 12393-BS EN 15662/Quechers
9	Fenthion(mg/kg)	≤0,01 mg/kg	TS EN 12393-BS EN 15662/Quechers
10	Haloxypop-methyl and Haloxypop-p-methyl(mg/kg)	≤1 mg/kg	TS EN 12393-BS EN 15662/Quechers
11	Procymidone(mg/kg)	≤ 0.5mg/kg	TS EN 12393-BS EN 15662/Quechers
12	Chlordan(mg/kg)	≤0.02mg/kg	TS EN 12393-BS EN 15662/Quechers
13	Benzo(a)pyrene(ug/kg)	≤10ug/kg	In house Method lab Sop830

Allergens: Does not contain.

GMO: Does not contain.

Microbiological contaminants: Microorganisms are not developed due to the characteristics of very low water activity of the product.

Physical contaminants: Free of foreign materials.

Storage conditions: store at room temperature, away from light, heat and store from foreign odors.

Tariff code: 15121990