

PRODUCT SPECIFICATION

Sunflower Oil for Deep Frying Refined, Deodorized, Bleached, Chilled/Winterized (Grade P)

In-house laboratory certified by the “KirovogradStandartMetrology” State Testing Center
Approval Certificate No. 21/25 issued 01.07.2025, expires 30.06.2028

Product Name	Sunflower Oil for Deep Frying Refined	
Ingredients	100% pure sunflower oil, E900, E320/E321	
Product description:	Physically refined edible oil of vegetable origin obtained from seeds of the sunflower plant (<i>Helianthus annuus</i>) by pressing. The oil is bleached, chilled, and deodorized.	
Place of manufacture:	56, Molodizhna Str, settlement. Vlasivka, Oleksandriyskiy District, Kirovohradska Oblast, 27552 Ukraine	
Primary packaging:	PET bottle/ jerry can, PE cap	
Secondary packaging:	corrugated cardboard box	
Storage and transport requirements:	To be stored in places protected from precipitation fallout and sunlight	
Shelf life:	24 months from the date of bottling, if stored in a dark indoor area within the recommended temperature range from 0°C to 30°C	
Regulatory reference:	Quality of the product is in compliance with the requirements of DSTU 4492:2017 "Sunflower Oil. Specifications" (Ukrainian national standard)	
Application purpose:	Sunflower oil is used for frying, hot cooking	
Use and application:	This product is fit for direct human consumption.	
Sensory characteristics:		
Appearance, color:	Clear oily liquid of a slightly yellowish color, without sediment	
Taste:	Neutral, free from any foreign taste	
Odor:	Neutral, free from any foreign odors	
Physical and chemical properties:		
Test item name and unit	Reference Value	Tested Value*
Color number, mg iodine, not more than	10	3
Colour Lovibond 5j inch cell (#)	1.2	1.0
Acid number, mg KOH/g, not more than	0.50	0.09...0.14
Peroxide number, ½ O mmol/kg, not more than	10	0.56...0.58
Content of phosphoric substances in terms of stearooleolecithin, % by weight, not more than	none	none
Non-fat impurity content, % by weight, not more than	none	none
Moisture and volatiles content, % by weight, not more than	0.10	0.02...0.03
Wax and wax-like substances	none	none
Soap (quality test)	none	none
Antioxidants (E320/E321), g/100g	0.05	0.02
Antifoaming agent (E900), mg/kg, not more than	10	8
Heavy metals by weight, mg/kg, not more than:		
	Reference Value	Tested Value*
Lead (Pb)	0.10	0.041
Cadmium (Cd)	0.05	0.0121
Arsenic (As)	0.10	none detected

Mercury (Hg)	0.03	none detected
Copper (Cu)	0.50	0.198
Iron (Fe)	5.00	0.842
Residual pesticides by weight, mg/kg, not more than:		
	<i>Reference Value</i>	<i>Tested Value*</i>
DDT	0.10	< 0.001
Hexachlorane (HCCH, hexachlorocyclohexane)	0.05	< 0.001
Heptachlorine	0	none detected
Mycotoxins by weight, mg/kg, not more than:		
	<i>Reference Value</i>	<i>Tested Value*</i>
Aflatoxin B1	0.005	< 0.001
Zearalenone	1.0	< 0.04
Radionuclides, Bq/kg		
	<i>Reference Value</i>	<i>Tested Value*</i>
Caesium-137 (Cs-137)	< 100	9.46
Strontium-90 (Sr-90)	< 30	4.65
Other		
Trans fatty acids, %	< 1.0	0.05
Benzo(a)pyrene content by weight, µg/kg	< 2.0	1.1
Genetically modified organisms (GMO)		
35S+FMV promotor target sequence (PCR Real-Time)	< 0.1%	none detected
NOS-terminator target sequence (PCR Real-Time)	< 0.1%	none detected
Fatty acid composition, %		
	<i>Reference Value</i>	<i>Tested Value*</i>
C 16:0	5.0 – 7.6	6.59
C 18:0	2.7 – 6.5	3.84
C 18:1	14.0 – 39.4	26.9
C 18:2	48.3 – 74.0	60.18
C 20:0	0.1 – 0.5	0.27
C 22:0	0.3 – 1.5	1.00

*This is a reference product specification. The actual tested values may vary slightly from batch to batch. The actual tested values for each individual consignment of this product will be given in respective quality documents issued for that consignment at the time of shipping.

