

SF TRADE LTD

Aleja Jana Pawła II 43A/37B, 01-001, Warsaw, Poland Tax Number: 5273063769

National Official Business Register: 525696015 National Court Register: 0001044454

PRODUCT SPECIFICATION

Product:	Sunflower Oil Refined Deodorized Chilled, Grade P
Ingredients:	100% Pure Sunflower Oil
Product description:	Physically refined edible oil of vegetable origin obtained from seeds of the sunflower plant (Hellanthus annuus) by pressing. The oil is bleached, chilled, and deodorized.
Product origin:	UKRAINE
Place of manufacture:	In UKRAINE by order of SF TRADE company
Primary packaging:	Bulk in flexitank or tanker truck
Secondary packaging:	Sea container 20`
Store 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 from 0°C to 30°C.
Regulatory reference:	Quality of the product is in compliance with requirements of DSTU 4492 "Sunflower Oil Specifications" (Ukrainian national standards)
Application purpose:	Sunflower oil is used for frying, hot cooking, and hot/cold salad-dressing.

SENSORY CHARACTERISTICS

Appearance, color:	Clear oily liquid, without sediment
Taste:	Neutral, free from any foreign taste
Odor:	Neutral, free from any foreign odors

PHYSICAL AND CHEMICAL PREPERTIES

Test item name and unit	Reference Value	Actual Value
Color number	10	1
mg iodine, not more than	10	1
Acid number	0.35	0.00
mg KOG/g, not more than	0,25	0,09
Peroxide number	10	0.45
½ O mmol/kg, not more than	10	0,45
Content of phosphoric substances in terms of		
stearooleolecithin	None	None
% by weight, not more than		
Non-fat impurity content	None	None
% by weight, not more than	None	None
Moisture and volatiles content	0,10	0,03
% by weight, not more than	0,10	0,03
Wax and wax-like substances	None	None
Soap (quality test)	None	None

TOXIC SUBSTANCE CONTENT BY WEIGHT - mg/kg, not more than

Lead	0,1	0,066
Arsenic	0,1	< 0,063
Cadmium	0,05	0,0184
Mercury	0,03	< 0,001
Copper	0,5	0,138
Iron	5,0	2,340
Zinc	5,0	2,123

MYCOTOXIN CONTENT BY WEIGHT - $\mu g/kg$, not more than

Aflatoxin B1	0,005	< 0,001
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0,92

Zearalenone	1,0	< 0,04
RESIDUAL PESTICIDES BY WEIGHT - mg/kg, no	ot more than	
HCH gamma isomer (hexachloran)	0,05	< 0,05
Heptachlor	None allowed	None
DDT	0,1	< 0,05
RADIONUCLIDE CONTENT - Bg/kg		
Caesium-137 (Cs-137)	< 100	10,7
Strontium-90 (Sr-90)	< 30	6,53
Trans fatty acids %	< 1,0	0,038
Benzo(a)pyrene content by weight μg/kg	< 2,0	0,7
Delizo(a)pyrelie collitellit by weight µg/kg	1 = 10	0,7
Genetically modified organisms	< 0,9	None detected
Genetically modified organisms		
Genetically modified organisms FATTY ACID COMPOSITION - %		
Genetically modified organisms FATTY ACID COMPOSITION - % C 16:0	< 0,9	None detected
Genetically modified organisms FATTY ACID COMPOSITION - % C 16:0 C 18:0	< 0,9 3,0 – 10,0	None detected 6,9
Genetically modified organisms FATTY ACID COMPOSITION - % C 16:0 C 18:0 C 18:1	< 0,9 3,0 - 10,0 1,0 - 10,0	None detected 6,9 3,9
Genetically modified organisms	< 0,9 3,0 - 10,0 1,0 - 10,0 14,0 - 35,0	6,9 3,9 27,5

0,917 - 0,927

Density at 20°C