



## Refined Sunflower Oil SPECIFICATIONS

Refined sunflower oil is perfectly clean oil, which preserves all the nutrients during the production process. This oil can be used in conditions of extremely high cooking temperatures. Refined sunflower oil is also used in the manufacturing of canned food, as well as in the soap boiling and paint and varnish industry. Refined sunflower oil packed in bulk and in PET bottles. Custom design print labels and boxes for the bottles are available by request. Product code

### SPECIFICATIONS: REFINED SUNFLOWER OIL

NAME OF INDICATORS	limit norms	facts
Smell:	Absence	Absence
Taste:	Neutral	Neutral
Transparency:	Transparent	Transparent
<b>PHYSICAL AND CHEMICAL PARAMETS:</b>		
Color index, mg of iodine, at most:	10	1.0
Acid number mg KOH/g at most:	0.25	0.07
Anizidin number c.u.	not normalized	3.2
Fraction of total mass of nonoleaginous impurities, %	Absence	Absence
Fraction of total mass of phosphorus containing substances, %, in terms of stearoololecithin:	Absence	Absence
Fraction of total mass of moisture and volatile substances, %, at most:	0.10	0.02
Soap( quality sample):	Absence	Absence
Wax content	Absence	Absence
Vitamin E, mg/kg	600-750	605
*(protocol №0273 05.01.18)		
Peroxide number,(for fresh oil) / 0 mmol/kg, at most:	2.0	0.7
Iodine number, g J2/100 g	125-145	125
Refractive Index at specified temperature, at 25 °C	NA	1.473
Relative density at 25 °C	NA	0.9211
<b>MASS FRACTION OF TOXIC ELEMENTS, MG/KG, AT MOST: *(PROTOCOL №0273 05.01.21)</b>		
Fraction of total mass of lead, mg/kg:	0.1	less 0.0040
Fraction of total mass of cadmium, mg/kg:	0.03	less 0.0010
Fraction of total mass of arsenic, mg/kg:	0.1	less 0.0010
Fraction of total mass of mercury, mg/kg:	0.02	less 0.0001
Fraction of total mass of copper, mg/kg:	0.5	0.084
Fraction of total mass of zinc mg/kg:	5.0	0.196
Fraction of total mass of iron mg/kg:	5.0	1.339
<b>MASS FRACTION OF RESIDUES OF ORGANIC CHLORINE PESTICIDES, MG/KG, BELOW THE RESULTED NUMBER</b>		
Heptachlor, mg/kg:	Absence	Absence
*(protocol №0273 05.01.18)		
DDT, mg/kg:	0.1	less 0.006
*(protocol №0273 05.01.18)		
Hexachloran, mg/kg:	0.05	less 0.0015
*(protocol №0273 05.01.18)		
<b>MASS FRACTION OF TOXIC MYCOTOXINS, MG/KG, AT MOST: *(PROTOCOL №0273 05.01.21)</b>		
Fraction of total mass of zearalenon mg/kg:	1.0	Less 0.1
Fraction of total mass aflatoxin B1 mg/kg:	0.005	Less 0.003
<b>RADIONUCLIDES CONTENT, Bq/KG, AT MOST:</b>		
Cesium-137, Bq/kg	100	4.0
*(protocol №14101-IP 05.01.18)		
Strontium-90,Bq/kg	30	1.0
*(protocol №14101-IP 05.01.18)		
Fraction of total mass of benz(a)pyrene,µg/kg	at most 2.0	at most 0.12
Fraction of total mass of mineral oil (C10-C56), mg/kg	at most 25	less 20
*** (protocol №ZA1440-0370 21.12.17)		
Sum of BaP, BaA, Chr and BbF ** (report of Dr.Verwey Lab № 66066-131485 05.01.18)	at most 10	Less 1.0
Sum of dioxins (WHO-PCDD/F- TEQ), ng/g ***protocol №2453404 05.01.18	at most 0.75	0.1032
Sum of dioxins and dioxin-like PCBs (WHO-PCDD/F- TEQ), ng/g	at most 1.5	0.1710
***protocol №2453404 05.01.18		
PCB Sum (PCB 28, 52, 101, 138, 153, 180), ng/kg ** protocol №2453404 05.01.18	at most 40.0	less than 1.2

