PRODUCT TECHNICAL DATA SHEET · OILS AND OILSEEDS

Sunflower Oil

ORIGIN
Ukraine

Sunflower Oil · conventional linoleic (standard)

REFERENCE	REVISION	DATE	HS CODE
PGC-FT-GIR-UA	01	Nov 8, 2026	1512.19 · 1512.11





01 GENERAL IDENTIFICATION

Product	Sunflower seed oil (*Helianthus annuus* L.)
Type and variety	Conventional (standard) linoleic sunflower · not high-oleic or mid-oleic
Presentations	Refined · crude (winterized), as per the catalog · HS codes 1512.19 (refined) and 1512.11 (crude)
Reference standard	Codex CXS 210-1999 · Ukrainian standard DSTU 4492:2017 PENDING
Country of origin	Ukraine · extraction plant and refinery PENDING
Intended use	Refined: direct consumption and food industry · crude: intended for refining
Sales department	Polo Group Company · the exporter is the producer at origin, named in the contract

02 TECHNICAL DESCRIPTION

Oil obtained from sunflower seeds by pressing and/or extraction. Refined oil undergoes neutralization, bleaching, winterization (removal of waxes so the oil stays clear when cold) and deodorization; the result is a light-colored, neutral-tasting oil suitable for direct consumption and the food industry.

The linoleic type is the standard sunflower oil of the Codex Standard, with linoleic acid (omega-6) at 48.3% to 74.0% of fatty acids. High-oleic and mid-oleic types have a different composition and are not covered by this sheet.

CATALOG Polo Group 2026 catalog condition
STANDARD legal or regulatory limit
REFERENCE indicative value, not guaranteed
PENDING to be confirmed with the producer

03 ANALYTICAL SPECIFICATIONS

Table 1 · Refined oil: analytical parameters

PARAMETER	VALUE	UNIT	METHOD	STATUS
FATTY ACID COMPOSITION · CODEX CXS 210 (LINOLEIC SUNFLOWER)				
Linoleic acid (C18:2)	**48.3–74.0**	% fatty acids	ISO 12966-2 / -4	STANDARD
Oleic acid (C18:1)	**14.0–39.4**	% fatty acids	ISO 12966-2 / -4	STANDARD
Palmitic acid (C16:0)	**5.0–7.6**	% fatty acids	ISO 12966-2 / -4	STANDARD
Stearic acid (C18:0)	**2.7–6.5**	% fatty acids	ISO 12966-2 / -4	STANDARD
Linolenic acid (C18:3)	**≤ 0.3**	% fatty acids	ISO 12966-2 / -4	STANDARD
Behenic acid (C22:0)	**0.3–1.5**	% fatty acids	ISO 12966-2 / -4	STANDARD
Erucic acid (C22:1)	**≤ 0.3**	% fatty acids	ISO 12966-2 / -4	STANDARD
IDENTITY CHARACTERISTICS · CODEX CXS 210				
Iodine value (Wijs)	**118–141**	g I_2/100 g	ISO 3961	STANDARD
Saponification value	**188–194**	mg KOH/g	ISO 3657	STANDARD
Relative density (20 °C)	**0.918–0.923**	—	ISO 6883	STANDARD
Refractive index (40 °C)	**1.461–1.468**	n_D	ISO 6320	STANDARD
Unsaponifiable matter	**≤ 15**	g/kg	ISO 3596 / ISO 18609	STANDARD
QUALITY · CODEX CXS 210 (REFINED OIL)				
Acid value	**≤ 0.6**	mg KOH/g	ISO 660	STANDARD
Peroxide value	**≤ 10**	meq O_2/kg	ISO 3960	STANDARD
Moisture and volatile matter (105 °C)	**≤ 0.2**	% m/m	ISO 662	STANDARD
Insoluble impurities	**≤ 0.05**	% m/m	ISO 663	STANDARD
Soap	**≤ 0.005**	% m/m	BS 684-2.5	STANDARD
Iron (Fe)	**≤ 1.5**	mg/kg	ISO 8294	STANDARD
Copper (Cu)	**≤ 0.1**	mg/kg	ISO 8294	STANDARD
Color, odor and taste	**Characteristic**	—	Sensory evaluation	STANDARD
CONTRACT PARAMETERS TO BE DEFINED WITH THE PRODUCER				
Lovibond color (5¼" cell)	**—**	R / Y	ISO 15305	PENDING
Phosphorus	**—**	mg/kg	ISO 10540	PENDING
Cold test (winterized)	**—**	h at 0 °C	AOCS Cc 11-53	PENDING

A commercial spec sheet for refined sunflower oil on the market gives peroxides ≤ 1.0 meq O_2/kg at production, ≤ 8.0 at the end of shelf life and phosphorus ≤ 5 mg/kg REFERENCE. The crude oil specifications (acidity, moisture and impurities, phosphorus, waxes) remain PENDING the producer's specification.

04 FOOD SAFETY AND CONTAMINANTS

PARAMETER	LIMIT	REGULATORY REFERENCE	STATUS
Lead (Pb)	**≤ 0.1 mg/kg**	Codex CXS 210 · Reg. (EU) 2023/915	STANDARD
Arsenic (As)	**≤ 0.1 mg/kg**	Codex CXS 210	STANDARD
3-MCPD and its esters	**≤ 1,250 µg/kg**	Reg. (EU) 2023/915 · refined sunflower oil	STANDARD
Glycidyl esters (as glycidol)	**≤ 1,000 µg/kg**	Reg. (EU) 2023/915	STANDARD
Benzo(a)pyrene	**≤ 2.0 µg/kg**	Reg. (EU) 2023/915	STANDARD
Sum of 4 PAHs	**≤ 10.0 µg/kg**	Reg. (EU) 2023/915	STANDARD
Erucic acid	**≤ 20.0 g/kg**	Reg. (EU) 2023/915	STANDARD
Dioxins and dioxin-like PCBs	**≤ 1.25 pg/g**	Reg. (EU) 2023/915 · WHO-TEQ, fat basis	STANDARD
Non-dioxin-like PCBs	**≤ 40.0 ng/g**	Reg. (EU) 2023/915 · fat basis	STANDARD
Mineral oil hydrocarbons (MOSH/MOAH)	**—**	EU MOAH limits in the approval process (application expected Jan 1, 2027)	PENDING
Pesticide residues	**MRL**	Codex MRLs · Reg. (EC) 396/2005 if the destination is the EU	STANDARD

Allergens. Sunflower is not among the allergens listed in Annex II of Regulation (EU) No 1169/2011. Risk of cross-contamination at the plant PENDING.

GMO. Producer's declaration that the product is not genetically modified PENDING.

05 CERTIFICATIONS

CERTIFICATION	SCOPE	STATUS
FSSC 22000 / ISO 22000	Food safety management system of the plant	PENDING
HACCP	Hazard analysis and critical control points plan	PENDING
Halal · Kosher	Depending on the destination market	PENDING
Non-GMO certificate	Product or lot	PENDING

No certification is considered confirmed until a current copy of the certificate issued in the producer's name is received. Plant certification is distinguished from the quality certificate of each lot.

06 PACKAGING

Container	PET bottle from 1 to 5 L · flexitank · bulk
PET packing	Bottles per case or pack and cap type PENDING
Flexitank and bulk	Material, food-grade certificate and previous cargoes PENDING
Labeling	Producer's brand, private label or neutral · language by destination PENDING

07 COMMERCIAL AND LOGISTICS TERMS

Table 2 · Commercial and logistics

ITEM	CONDITION	STATUS
Presentation	Refined · crude (winterized)	CATALOG
Packaging	PET bottle 1–5 L · flexitank · bulk	CATALOG
Palletizing	Pallet type, cases per pallet and pallets per container (PET)	PENDING
Container	Container with flexitank · container with PET · container type and size PENDING	CATALOG
Capacity	±22,000 L per flexitank (≈ 20.2–20.3 t) · ±21 t in PET	CATALOG
Incoterms® 2020	FOB · CFR · CIF depending on destination	CATALOG
Port of loading	Named in the contract · see logistics note	PENDING
Price and availability	On request · weekly quote at origin market prices	CATALOG
Documents	Commercial invoice · packing list · bill of lading (B/L) · certificate of origin (EUR.1 or origin declaration where EU–Ukraine preference applies) · lot certificate of analysis · quality and quantity inspection certificate (SGS or equivalent) · flexitank certificate · health certificates as required by the destination country	BY DESTINATION

The flexitank tonnage is a calculation using the relative density in the Codex Standard (22,000 L × 0.918–0.923).

08 STORAGE AND SHELF LIFE

- Closed containers in a cool, dry, dark place, protected from sunlight, heat and strong odors.
- Bulk and flexitank: storage and transport according to the Codex Code of Practice CXC 36-1987 for fats and oils in bulk.
- Reference shelf life of the refined oil: 24 months, according to a commercial market spec sheet REFERENCE
- Shelf life guaranteed by the producer and temperature conditions PENDING

09 ADDITIONAL INFORMATION

Origin. For the 2025/26 season, the Ukrainian Agribusiness Club (UCAB) estimates sunflower oil production at 4.3 million t and exports at 4.1 million t, mainly to the EU, the Middle East and Asia REFERENCE.

Logistics. Due to security risks at the ports of Pivdennyi, Odesa and Chornomorsk, from Nov 16, 2026 S&P Global Platts takes the Danube ports (Izmail and Reni) as the basis for FOB Black Sea. The port of loading and marine insurance are confirmed for each operation.

References. Codex CXS 210-1999, Standard for Named Vegetable Oils · Codex CXC 36-1987 · Regulations (EU) 2023/915, 1169/2011 and (EC) 396/2005 · DSTU 4492:2017 (Ukraine) · ISO, AOCS and BS methods.

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