



## TECHNICAL DATA SHEET (TDS)

### REFINED DEODORIZED SUNFLOWER OIL – FIRST GRADE

**Brand:** TUAY AUREA | **Manufacturer:** TUAY GROUP PLASTIC PACKAGING INDUSTRY & TRADE INC.

**Country of Origin:** Türkiye | **Product Type:** Refined Deodorized Sunflower Oil (RBD)

**Intended Use:** Direct human consumption and industrial food production

#### Product Description

Tuay Aurea Refined Deodorized Sunflower Oil is produced from carefully selected sunflower seeds using advanced pressing, solvent extraction, refining, bleaching, winterization and deodorization processes. Manufactured in Türkiye under integrated quality management, food safety and full traceability systems, the product complies with international refinery standards and delivers consistent purity, stability and performance for global retail and industrial food applications.

#### Method of Production

Mechanical pressing and solvent extraction of sunflower seeds followed by neutralization, bleaching, winterization and deodorization under controlled temperature and vacuum conditions.

#### Organoleptic Characteristics

Parameter	Specification
Appearance	Clear, transparent
Color	Light yellow
Odor	Odorless
Taste	Neutral
Sediment	None

#### Headquarters

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## PHYSICAL & CHEMICAL CHARACTERISTICS

Parameter	Unit	Typical Value	Maximum Limit	Test Method
Acid Value	mg KOH/g	≤ 0.16	≤ 0.40	ISO 660
Moisture & Volatiles	%	≤ 0.01	≤ 0.10	ISO 662
Insoluble Impurities	%	Absent	Absent	ISO 663
Soap Content	-	Absent	Absent	ISO 3596
Peroxide Value	meq O <sub>2</sub> /kg	≤ 0.5	≤ 10.0	ISO 3960
Color (Lovibond)	Red	≤ 2.0	≤ 10.0	ISO 15305
Cold Test	-	Pass	Pass	AOCS Cc 11-53

All parameters comply with Turkish Food Codex, ISO standards and applicable EU food safety regulations. Values are indicative at the time of shipment and remain within specified limits throughout shelf life when stored under recommended conditions.

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## FATTY ACID PROFILE

Fatty Acid Group	Average Content (%)
Saturated Fatty Acids	~12.0
Monounsaturated Fatty Acids	~24.0
Polyunsaturated Fatty Acids	~63.0
Trans Fatty Acids	≤ 1.0

Fatty Acid	Content (%)
C14:0	≤ 0.2
C16:0	5.0 – 7.6
C16:1	≤ 0.3
C18:0	2.7 – 6.5
C18:1 cis	14.0 – 39.4
C18:2 cis	48.3 – 77.0
C18:3 cis	≤ 0.3
C20:0	≤ 0.5
C20:1	≤ 0.3
C22:0	0.3 – 1.5
C22:1	≤ 0.2
C24:0	≤ 0.5

Fatty acid composition values are average ranges and may vary depending on sunflower seed origin and seasonal conditions, while remaining within international refinery specifications.

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## SAFETY, CONTAMINANTS & REGULATORY COMPLIANCE

Parameter	Unit	Maximum Limit
Benzo(a)pyrene	µg/kg	≤ 2
Dioxins	ng/kg	≤ 0.75
Lead (Pb)	mg/kg	≤ 0.10
Cadmium (Cd)	mg/kg	≤ 0.05
Mercury (Hg)	mg/kg	≤ 0.03
Arsenic (As)	mg/kg	≤ 0.10
Pesticide Residues	-	EU / TR compliant

### GMO & Allergen Status

This product is Non-GMO and does not contain genetically modified organisms. It is free from allergens including gluten, soy, nuts, milk, eggs, sesame, mustard and sulfur dioxide.

### Regulatory Compliance

Manufactured in accordance with Turkish Food Codex, ISO 22000 Food Safety Management System, HACCP principles, ISO 9001 Quality Management System and applicable European Union food safety regulations.

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## NUTRITION, PACKAGING, STORAGE & TRACEABILITY

Nutritional Values	Per 100 g	Per Serving (10 g)
Energy	899 kcal / 3696 kJ	90 kcal / 370 kJ
Fat	99.9 g	10.0 g
Protein	0 g	0 g
Carbohydrates	0 g	0 g
Sugars	0 g	0 g
Salt	0 g	0 g
Vitamin E	≈ 70 mg	≈ 7 mg
Cholesterol	0 mg	0 mg

### Packaging

Food-grade PET bottles produced by blow-molding technology and sealed with tamper-evident caps. Secondary packaging in corrugated cartons, palletized for safe transportation.

### Storage & Transportation

Store in a clean, dry, odor-free environment protected from direct sunlight. Transportation in covered and hygienic vehicles. After opening, keep refrigerated.

### Shelf Life

22 months from production date when stored under recommended conditions.

### Traceability & Batch Identification

Each unit is laser-marked with production date, batch number, production line and best before date. Full traceability is ensured from raw material intake to finished product shipment.

### Manufacturer Declaration

TUAY GROUP PLASTIC PACKAGING INDUSTRY & TRADE INC. declares that this product is manufactured in accordance with international food safety, quality and refinery standards.

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