

## Product Specification: Crude Degummed Soybean Oil (CDSBO)

### Product Overview

Crude Degummed Soybean Oil is a high-quality, partially processed vegetable oil extracted from the seeds of *Glycine max* (L.) Merr., originating from Argentina – one of the world's leading soybean producers and exporters. The oil undergoes water degumming (or acid-assisted degumming) to remove the majority of phospholipids/gums, resulting in low phosphorus content suitable for further refining into edible RBD soybean oil or for direct use in biodiesel production, industrial oleochemicals, animal feed formulations, and export markets. This product serves as a premium raw material in the global vegetable oil trade, known for consistent quality from Argentine origins.

### Sensory Profile

- **Appearance:** Light yellow to reddish-yellow, clear to slightly hazy
- **Consistency:** Liquid at ambient temperature (20°C)
- **Flavor and Aroma:** Mild, characteristic soybean odor (slightly beany – not rancid or off)
- **Impurities:** No visible mechanical impurities
- **Shelf Life:** 12–18 months from date of manufacture when stored in cool, dry, dark conditions (tanks, flexitanks, or drums)

Parameter	Specification	Test Method
Specific Gravity at 20°C (g/mL)	0.918 – 0.925	ISO 6883 or AOCS Bg 1-05
Moisture and Volatile Matter (%)	≤ 0.20	AOCS Ca 2d-25 or ISO 662
Insoluble Impurities (%)	≤ 0.10	ISO 663
Free Fatty Acids (% as oleic acid)	Basis 1.00% – Max 1.25%	AOCS Ca 5a-40 or ISO 660
Peroxide Value (meq O <sub>2</sub> /kg) – At Dispatch	≤ 5.0	AOCS Cd 8-53 or ISO 3960
Phosphorus Content (ppm)	≤ 200 (typically 50–150)	AOCS Ca 18-91 or ICP-OES
Lecithin (expressed as Phosphorus %)	≤ 0.02	AOCS Ca 12-55 or equivalent
Flash Point (°C)	≥ 121 (250°F minimum)	AOCS Cc 9a or equivalent
Iodine Value (Wijs)	124 – 139	AOCS Cd 1-25 or ISO 3961

#### Corporate Office

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Saponification Value (mg KOH/g)

188 – 195

AOCS Cd 3-25 or ISO 3657

Unsaponifiable Matter (%)

≤ 1.5

AOCS Ca 6a-40 or ISO 3596

## Analytical and Physical Properties

### Notes:

- Phosphorus significantly reduced from crude non-degummed levels (~600–1200 ppm) through degumming process.
- Argentine origin typically shows moderate to low FFA, phosphorus, and neutral oil loss compared to other South American origins.
- Lovibond Color (indicative): Yellow ≤ 50 / Red ≤ 5 (1" cell)

## Fatty Acid Composition\*

Fatty Acid	Carbon Chain	Specification (%)	Test Method
Myristic	C14:0	ND – 0.2	—
Palmitic	C16:0	8.0 – 13.5	—
Palmitoleic	C16:1	ND – 0.2	—
Stearic	C18:0	2.0 – 6.0	—
Oleic	C18:1	17.0 – 30.0	Gas Chromatography
Linoleic	C18:2	50.0 – 60.0	ISO 5508 or AOCS Ce 2-66
Linolenic	C18:3	4.0 – 11.0	—
Arachidic	C20:0	0.1 – 0.7	—
Behenic	C22:0	ND – 0.5	—

\*Aligned with CODEX ALIMENTARIUS CXS 210-1999 (reference values for soybean oil). Total Trans Fatty Acids: ≤ 1% (naturally occurring). ND = Non-detectable (≤ 0.05%).

## Nutritional Information (Approximate per 100g)

Nutrient	Value
Energy	3700 kJ / 900 kcal
Total Fat	100 g
Saturated Fats	12 – 18 g
Monounsaturated Fats	18 – 30 g
Polyunsaturated Fats	55 – 65 g
Cholesterol	ND

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Nutrient	Value
Additives	None

## Heavy Metals (Typical Limits – at dispatch)

Metal	Unit	Limit	Test Method
Iron (Fe)	ppm	≤ 2.0	ISO 8294
Copper (Cu)	ppm	≤ 0.2	ISO 8294
Lead (Pb)	ppm	≤ 0.1	ISO 12193
Arsenic (As)	ppm	≤ 0.1	ICP-MS (ISO 11885)

## General Notes

- **Origin:** 100% Argentina (produced from Argentine soybeans).
- **GMO status:** Conventional GMO-derived (labeling required as per destination country regulations – e.g., EU 1829/2003). Non-GMO options available upon request.
- Compliant with major international trading standards (FOSFA, NOPA, PORAM, etc.) and aligned with **CODEX CXS 210-1999** reference values for crude/degummed oils.
- Not intended for direct human consumption without further refining.
- Specifications reflect typical Argentine export quality and are for informational purposes. Slight seasonal/crop variations possible.
- Third-party inspection (SGS, Bureau Veritas, or equivalent) and laboratory analysis recommended prior to loading/shipment.
- No express or implied warranties for merchantability or fitness for specific purposes.

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