

## TECHNICAL DATA SHEET: CRUDE SOYBEAN OIL

### 1. CHEMICAL & PHYSICAL SPECIFICATIONS

- Free Fatty Acids (FFA): Max 1.25% (as Oleic)
- Moisture & Impurities (M&I): Max 0.20% (Max 0.50% total)
- Flash Point: Min 121°C (250°F)
- Phosphorus: Max 200 ppm (Degummed) / Max 0.02%
- Saponification Value: 189 – 195 mg KOH/g
- Iodine Value (Wijs): 124 – 139 g I<sub>2</sub>/100g
- Refractive Index (40°C): 1.466 – 1.470
- Relative Density (20°C): 0.919 – 0.925
- Unsaponifiable Matter: Max 1.5%

### 2. TYPICAL FATTY ACID PROFILE (%)

- C16:0 Palmitic: 9.0 – 13.0
- C18:0 Stearic: 3.0 – 5.5
- C18:1 Oleic: 17.0 – 30.0
- C18:2 Linoleic: 48.0 – 59.0
- C18:3 Linolenic: 4.5 – 11.0

### 3. SAFETY, CONTAMINANTS & LOGISTICS

- Mineral Oil: Max 50 mg/kg (Compliant with FOSFA/EU)
- Heavy Metals: Pb < 0.1 mg/kg | As < 0.1 mg/kg
- Pesticides / GMO: Compliant with EU MRLs | GMO labeling required as per EU 1829/2003
- Color (Lovibond): Max 50 Yellow / 5 Red
- Previous Cargoes: Must comply with FOSFA Accepted List
- Shelf Life / Storage: 12 Months | Bulk in cool, dry conditions

### 4. COMPLIANCE DECLARATION

Product is obtained from sound, non-heated soybeans, fit for refining for human consumption or biodiesel feedstock. Quality meets FOSFA standards