

TECHNICAL DATA SHEET: CRUDE PALM OIL (CPO)

1. CHEMICAL & PHYSICAL SPECIFICATIONS

- Free Fatty Acids (FFA): Max 5.0% (as Palmitic)
- Moisture & Impurities (M&I): Max 0.50%
- DOBI Index: Min 2.30 (Typical for export)
- Iodine Value (Wijs): 50 – 55 g I₂/100g
- Saponification Value: 190 – 209 mg KOH/g
- Melting Point (Slip Point): 33 – 39°C
- Refractive Index (40°C): 1.454 – 1.456
- Relative Density (50°C): 0.890 – 0.893
- Unsaponifiable Matter: Max 1.2%

2. TYPICAL FATTY ACID PROFILE (%)

- C14:0 Myristic: 0.5 – 2.0
- C16:0 Palmitic: 39.3 – 47.5
- C18:0 Stearic: 3.5 – 6.0
- C18:1 Oleic: 36.0 – 44.0
- C18:2 Linoleic: 9.0 – 12.0

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: Compliant with EU MRLs
- Solidification: The oil must be heated appropriately during discharge as per FOSFA heating instructions.
- Previous Cargo: Must comply with FOSFA Accepted List.
- Storage: In heated tanks (mild steel or epoxy coated).

4. COMPLIANCE DECLARATION

Product is obtained from the mesocarp of the oil palm fruit (*Elaeis guineensis*). Quality meets FOSFA standards for crude palm oil.