

Product Data Sheet

PFAD (Palm Fatty Acid Distillate)

Description

Description	PFAD (Palm Fatty Acid Distillate) is a by-product obtained from the physical refining (deodorisation) of crude palm oil, consisting primarily of free fatty acids along with minor unsaponifiable matter (tocopherols, tocotrienols, squalene). It is a key oleochemical feedstock used across soap manufacturing, animal feed energy supplementation, biodiesel production and fatty acid derivative synthesis.
Applications	Oleochemical feedstock for fatty acid derivatives (soaps, esters, amides) Animal feed energy supplement Biodiesel (FAME) production Candle and industrial wax manufacturing
Grade	Industrial Grade, Min. 90% Free Fatty Acid
CAS No.	68440-27-7

Key Benefits

1. High free fatty acid content providing a concentrated, cost-effective oleochemical feedstock
2. Consistent fatty acid profile (palmitic/oleic dominant) suited to soap and derivative manufacturing
3. Widely accepted, actively traded commodity with established global pricing benchmarks
4. Useful energy-dense additive for animal feed formulations
5. Suitable feedstock for biodiesel (FAME) production

Chemical Analysis & Physical Data

Typical Specification

Parameter	Unit	Specification
Free Fatty Acid (as Palmitic)	wt%	Min. 90.0 (typical 90–95)
Moisture & Impurities (M&I)	wt%	Max. 2.0
Iodine Value	g I ₂ /100g	48 – 58
Saponification Value	mg KOH/g	195 – 205
Melting Point (Titer)	°C	40 – 45
Colour (Gardner/Lovibond)	–	Dark – typical for distillate grade
Appearance	–	Brown semi-solid to solid (liquid when warmed)

Packaging

Packaging 200 kg (Net) Steel Drums
Flexitank / ISO Tank for bulk liquid shipment (warmed for loading)
Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, covered area away from direct sunlight
2. Product solidifies below $\approx 40\text{--}45^{\circ}\text{C}$ – warm gently (indirect heat) before pumping/transfer
3. Keep containers/tanks closed to minimise oxidation and odour development
4. Avoid prolonged storage at elevated temperatures to limit colour darkening and oxidation
5. Use appropriate PPE (gloves, goggles) when handling heated material

Quality Assurance

1. Every batch is tested against the specification above before dispatch

2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting FFA, iodine value and M&I against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.