

PRODUCT SPECIFICATION

REFINED, BLEACHED AND DEODORISED PALM OIL (RBD PO)

Product Description : The product is processed from crude palm oil and treated with processing aids under enclosed and sanitary conditions. It is light yellow liquid and semi-solid at room temperature, melting to a clear yellow liquid on slight heating. RBD PO is mainly an unsaturated oil (50 - 55 %unsaturated) and low in essential fatty acids. The product is food grade, allergen free, GMO free and non-irradiated.

Constituent Components : Palm Oil > 99.9%, Water < 0.1%, Citric Acid
Country of Origin : Malaysia
Source of Origin : Plant
Preparation Method : As ingredient for refineries and food industries.

Chemical:

Test Parameter	Unit	Specification	Analysis Method
Free Fatty Acid (As Palmitic)	%	≤ 0.100	AOCS Ca 5a-40
Iodine Value (Wijs)	g I ₂ /100g	50.00 – 55.00	AOCS Cd 1d-92
Colour (5 ¼" Lovibond Cell)	-	≤ 3.0 Red	AOCS Cc 13e-92
Moisture & Impurities	%	≤ 0.100	ISO 8534, AOCS Ca 3a-46
Melting Point	°C	30.8 – 37.6	AOCS Cc 3-25
Specific Gravity (50°C / Water at 25°C)	-	0.8900 – 0.8932	ISO 6883
Refractive Index (50°C)	-	1.450 - 1.460	AOCS Cc 7-25
Saponification Value	%	190 - 209	AOCS Cd 3-25
Unsaponifiable Matter	g/kg	≤ 10	AOCS Ca 6a-40
Peroxide Value	meq/kg	≤ 1.00	AOCS Cd 8-53

Microbiology:

Test Parameter	Unit	Specification	Method
Total Plate Count	cfu/g	<10	FDA, BAM Chapter 3 (2001)
Yeast and Mold	cfu/g	<10	FDA, BAM Chapter 18 (2001)
Enterobacteriaceae	cfu/g	<10	ISO 21528-2:2004
<i>Salmonella</i>	in 10g	Absent	FDA, BAM Chapter 5 (2011)
<i>Listeria spp. Detection</i>	in 25g	Absent	SDI RapidChek Listeria
<i>Staphylococcus Aureus</i>	in 1g	Absent	FDA, BAM Chapter 12 (2001)
<i>Escherichia coli</i>	in 1g	<10	FDA, BAM Chapter 4 (2002), Pour Plate

Heavy Metals:

Test Parameter	Unit	Specification	Method
Lead, as Pb	ppm	≤ 2 mg/kg	ICP-OES
Antimony, as Sb	ppm	≤ 1 mg/kg	ICP-OES
Arsenic, as As	ppm	≤ 1 mg/kg	ICP-OES
Cadmium, as Cd	ppm	≤ 1 mg/kg	ICP-OES
Mercury, as Hg	ppm	≤ 0.05 mg/kg	Mercury Analyzer

Nutrition Value (100g):

	Value (per 100g)
Energy	898 kcal / 3760 kJ
Protein	0 g
Carbohydrate	0 g
- Total Sugar	0 g
Total Fat	99.9 g
- Polyunsaturated Fatty Acids	10 g
- Monounsaturated Fatty Acids	40 g
- Saturated Fatty Acids	49.8 g
- Trans Fatty Acids	<0.1 g
Dietary Fiber	0 g
Sodium	0mg
Cholesterol	0 mg

Pesticides : Comply to Malaysia Food Regulations, Sixteenth Schedule.
Packaging Description : Road Tanker.
Storage Condition : Store in dark and dry storage tank or maintain at 55°C in agitated storage tank.
Shelf Life : 2 years from the manufacturing date in storage conditions as recommended.
Processing Standards : ISO 9001 / HACCP / GMP / HAS / Kosher
Regulatory Information : Conforms to Malaysia Food Act 1983 and Regulations 1985, Malaysia Halal Standards, Malaysian Palm Oil Board (MPOB) and PORAM specification. Legislation on use of this product may vary from country to country, the local food act should always be consulted.

All data, information and procedures are presented in good faith, and believed to be accurate. However, since the conditions of the use and handling are beyond our control, users are advised to conduct their tests to determine the suitability of such use(s). Nothing contained herein shall constitute a guarantee or warranty with respect to the products described or their use.