

**TECHNICAL SPECIFICATIONS OF OUR OILS
STEARINS FROM PALM TREE R.B.D.**

Date: June 30, 2007

COMPOSITION:

Estearin from Palm Tree (RBD) 99.99% and 0.01% of TBHQ as antioxidant.

APPLICATION:

For frying, baking, and soap manufacturing.

PRESENTATIONS:

The product is expended in bulk in tanquers or in 50 Kg carton drums.

SPECIFICATIONS	INEN NORM	AOCS METHOD
Acidity as Stearic Acid : 0.5 – 0.12% AGL	Max: 0.2%	Ca –5a – 40
Humidity : 0.02%	Max: 0.05%	Ca – 2b – 38
Impurities : 0.02%		Centrifugation
Peroxide : 1.0 – 4.0*Me02/Kg	5.0 Me02/Kg	Cd – 8 – 53
Iodine Index : 42 – 45 cg/g		Cd – 1 – 25
Melting Point (Closed Capillar): 47.0 – 50.0°C		Cc – 1 – 25
Melting Point (Open Capillar): 44.0 – 47.0°C		Cc – 3 – 25
Saponification Index: 190 – 210mg/g		INEN 40
Title : 40 – 50°C		INEN 43
Color Luibond 5 ¼ Cell	A= 18.0 a 30.0 R= 1.8 a 3.0	
Solid Fat Content	10°C 70 +/- 2	
RMN MINISPEC	20°C 50 +/- 3	
	30°C 23 +/- 3	
	35°C 15 +/- 2	
	40°C 9 +/- 2	

Smell/Flavor:

Good (proper)

* At packing time

Acidity, humidity, and peroxide are contemplated under R.B.D. International Palm Rules.

**HERNAN ALDAS E.
QUALITY CONTROL MANAGER**