



TECHNICAL DATA

(Not a Specification)

Product Name: **Palm Shortening, Conventional, MP 39 (All Purpose)**

Source: Palm Fruit Oil (PFO) from the spineless palm tree (*Elaeis guineensis*) (PFO may also be called Palm Oil in reference materials)

Manufacturing: The fruit of the palm is separated from the kernel, or pit, then the fruit is expeller pressed, filtered, bleached, and deodorized.

Nominal Melting Point 39 °C. Spectrum's All Purpose shortening is approximately 50% saturated and 50% unsaturated fat, and contains no transomerized fats which are found in hydrogenated oils. It is used in a variety of baking applications from cookies and sweet goods to breads and rolls.

Property Typical Analysis Method

Appearance	White to off-white	Observation
Organoleptic	Bland, creamy solid	Sensory Evaluation
Color (Lovibond)	≤3.5 R	AOCS Cc 13b-45, 5¼ cell
Moisture	≤0.1%	AOCS Ca 2e-84
Free Fatty Acid	≤0.2%	AOCS Ca 5a-40, as % palmitic
Peroxide Value	≤3.0 meq/kg	AOCS Cd 8b-90
Iodine Value	50 to 55	AOCS Cd 1d-92
Saponification Value	190 to 209	AOCS Cd 3-25
Smoke Point	230 °C (446 °F)	AOCS Cc 9a-48
Slip Melting Point	39	AOCS Cc 3-25

Typical Fatty Acid Profile (%) AOCS Ce 1e-91

C16:0	Palmitic	39 to 45
C18:0	Stearic	3 to 5
C18:1	Oleic	38 to 43
C18:2	Linoleic	9 to 11
C18:3	Linolenic	≤ 1

Solid Fat Content AOCS Cd 16-81

Temperature	Percent Solids
10°C (50°F)	52 – 60
20°C (68°F)	25 – 33
30°C (86°F)	8 – 12
35°C (95°F)	4 – 7

Note: In the above C(number) :(number) terminology the second number refers to the degree of saturation or unsaturation of the fatty acid. A zero (0) means the fatty acid is saturated, a one(1) means it is monounsaturated, and a two or greater (2, 3, etc.) means it is polyunsaturated. The first number refers to the number of carbon atoms in the fatty acid chain.

Packaging and Storage: Store in a cool dry place (50 to 68 degrees F optimum) away from direct sources of sunlight, heat and oxidizers. Properly stored unopened containers have an expected shelf life of 18 months. Allow to stand at 70° F for 6 hours before using.

<u>Item Number</u>	<u>Size</u>	<u>Container Description</u>
130394	50 lb	Packing is in 50 lb cube. Food grade polyethylene bag-in-box. 40 units per pallet.

This information is furnished without warranty expressed or implied, except that it is accurate to the best knowledge of the Company and is based on information considered to be reliable. Since the conditions of handling and use are beyond our control, we make no guarantee of results or performance of the material and assume no responsibility for damages incurred by use of this material.

1105 Industrial Ave Petaluma, CA 94952 - Phone: (888) 343-6637 Fax: 707 765-8738