

**SOAP & DETERGENT
PALMAC®**

98 - 16 505
50 - 18, 65 - 18, 70 - 18 505HS
90 - 18 70 - 12
750, 760, 770 98 - 12
GLYCERINE 98 - 14, 99 - 14
600, 605
630, 640

**PHARMACEUTICALS
PALMAC®**

505HS
55 - 16 56 - 08
90 - 18, 98 - 18 99 - 08
750, 760, 770 99 - 10
GLYCERINE 98 - 12, 99 - 12
98 - 14, 99 - 14

**RUBBER & LATEX
PALMAC®**

98 - 14, 99 - 14 56 - 08
1400, 1500, 1600 99 - 08
750, 760, 770 99 - 10
70 - 12
98 - 12, 99 - 12

**CANDLES & WAXES
PALMAC®**

630, 640, 55 - 16
50 - 18, 65 - 18, 70 - 18
90 - 18
1500

**PLASTICS
PALMAC®**

65 - 18, 70 - 18 56 - 08
750 99 - 08
GLYCERINE 99 - 10
98 - 12
55 - 16

**COSMETICS & TOILETRIES
PALMAC®**

505HS
98 - 12, 99 - 12
98 - 14, 99 - 14
630, 640, 55 - 16
95 - 16, 98 - 16
65 - 18, 70 - 18
90 - 18, 98 - 18
GLYCERINE

**FOOD ADDITIVES
PALMAC®**

98 - 06, 99 - 06 55 - 16
56 - 08 50 - 18, 65 - 18, 70 - 18
99 - 08 90 - 18, 98 - 18
99 - 10 750, 760, 770
98 - 12, 99 - 12 GLYCERINE
98 - 14, 99 - 14

**PAINTS & COATINGS
PALMAC®**

505
505HS
70 - 12
98 - 12
GLYCERINE

**GREASES & LUBRICANTS
PALMAC®**

56 - 08 98 - 16
99 - 08 65 - 18, 70-18
99 - 10 90 - 18
98 - 14, 99 - 14 750
600 GLYCERINE

**BUILDING BLOCKS FOR
CHEMICAL SPECIALTIES
PALMAC®**

**PALMAC®
FATTY ACIDS & GLYCERINE
BULLETIN 300-9**



IOI OLEOCHEMICAL

Cultivating Partnership Enhancing Value

www.ioioleo.com

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PALMAC® Fatty Acid Specifications

| PRODUCT NAME | DESCRIPTION | TITRE°C | IODINE VALUE (g ₂ / 100g) | ACID VALUE (mg KOH / g) | SAP VALUE (mg KOH / g) | COLOUR 5 1/4" LOV. Max. | COLOUR APHA Max. | TYPICAL FATTY ACID COMPOSITION % | | | | | | | | | PACKING | |
|----------------|--|-------------|--------------------------------------|-------------------------|------------------------|-------------------------|------------------|----------------------------------|-----------|-------------|-------------|-------------|------------|------------|-------------|-----------|----------|----------|
| | | | | | | | | C6 | C8 | C10 | C12 | C14 | C16 | C18 | C18:1 | C18:2 | | OTHERS |
| PALMAC 505 | Distilled Palm Kernel Fatty Acids | 20.0 - 28.0 | 14.0 - 19.0 | 248.0 - 262.0 | 249.0 - 263.0 | 10Y 1.0R | | 0.5 Max. | 2.0 - 5.0 | 2.0 - 5.0 | 48.0 - 56.0 | 13.0 - 17.0 | 7.0 - 10.0 | 1.0 - 3.0 | 10.0 - 15.0 | 1.0 - 3.0 | 1.0 Max. | 185 Kg D |
| PALMAC 505HS | Top Cut Distilled Hydrogenated Palm Kernel Fatty Acids | 28.0 - 33.0 | 0.5 Max. | 251.0 - 261.0 | 252.0 - 262.0 | 2Y 0.5R | | ← | 1.0 Max. | → | 52.0 - 58.0 | 18.0 - 24.0 | 8.0 - 12.0 | 8.0 - 12.0 | | | 1.0 Max. | 185 Kg D |
| PALMAC 98 - 06 | Caproic Acid 98% Min. | | 2.0 Max. | 470.0 Min. | 471.0 Min. | | 100 | 98.0 Min. | 2.0 Max. | 0.5 Max. | | | | | | | 1.0 Max. | 180 Kg P |
| PALMAC 56 - 08 | Caprylic - Capric Acid Blend | 6.0 Max. | 1.0 Max. | 352.0 - 365.0 | 354.0 - 367.0 | 3Y 0.5R | 60 | 0.5 Max. | 50.0 Min. | 35.0 - 45.0 | 1.0 Max. | | | | | | 1.0 Max. | 180 Kg D |
| PALMAC 99 - 08 | Caprylic Acid 99% Min. | 15.0 - 18.0 | 0.5 Max. | 383.0 - 390.0 | 384.0 - 391.0 | 3Y 0.3R | 60 | 0.5 Max. | 99.0 Min. | 1.0 Max. | | | | | | | 1.0 Max. | 180 Kg D |
| PALMAC 99 - 10 | Capric Acid 99% Min. | 30.0 - 32.0 | 0.5 Max. | 321.0 - 329.0 | 322.0 - 330.0 | 3Y 0.3R | 60 | | 1.0 Max. | 99.0 Min. | 1.0 Max. | | | | | | 1.0 Max. | 180 Kg D |
| PALMAC 70 - 12 | Lauric Acid 70% Min. | 32.0 - 36.0 | 1.0 Max. | 267.0 - 275.0 | 268.0 - 276.0 | 2Y 0.2R | 40 | | | 2.0 Max. | 70.0 Min. | 23.0 - 28.0 | 4.0 Max. | | | | 1.0 Max. | 185 Kg D |
| PALMAC 98 - 12 | Lauric Acid 98% Min. | 42.0 - 44.0 | 0.5 Max. | 278.0 - 282.0 | 279.0 - 283.0 | 2Y 0.2R | 40 | | | 1.0 Max. | 98.0 Min. | 2.0 Max. | | | | | 1.0 Max. | 25 Kg B |
| PALMAC 99 - 12 | Lauric Acid 99% Min. | 42.0 - 44.0 | 0.5 Max. | 278.0 - 282.0 | 279.0 - 283.0 | 2Y 0.2R | 40 | | | 1.0 Max. | 99.0 Min. | 1.0 Max. | | | | | 1.0 Max. | 25 Kg B |
| PALMAC 98 - 14 | Myristic Acid 98% Min. | 52.0 - 54.0 | 0.5 Max. | 243.0 - 248.0 | 244.0 - 249.0 | 2Y 0.2R | 40 | | | | 2.0 Max. | 98.0 Min. | 2.0 Max. | | | | 1.0 Max. | 25 Kg B |
| PALMAC 99 - 14 | Myristic Acid 99% Min. | 52.0 - 54.0 | 0.5 Max. | 243.0 - 248.0 | 244.0 - 249.0 | 2Y 0.2R | 40 | | | | 1.0 Max. | 99.0 Min. | 1.0 Max. | | | | 1.0 Max. | 25 Kg B |

We Specialise In Producing To Customer Specifications

| | | | | | | | | | | | | | | | | | | |
|----------------|----------------------------|-------------|--------------|---------------|---------------|-----------|----|---|--|--|-----------|-------------|-------------|-------------|-------------|------------|----------|----------|
| PALMAC 600 | Distilled Palm Fatty Acids | 40.0 - 48.0 | 48.0 - 55.0 | 195.0 - 215.0 | 196.0 - 216.0 | 10Y 1.5R | | | | | 1.0 Max. | 3.0 Max. | 38.0 - 48.0 | 3.0 - 8.0 | 35.0 - 45.0 | 6.0 - 12.0 | 1.5 Max. | 185 Kg D |
| PALMAC 605 | Distilled Palm Fatty Acids | 48.0 - 53.0 | 30.0 - 39.0 | 206.0 - 216.0 | 207.0 - 217.0 | 10Y 1.0R | | | | | 1.0 Max. | 2.0 Max. | 55.0 - 65.0 | 4.0 - 8.0 | 20.0 - 32.0 | 3.0 - 9.0 | 1.5 Max. | 185 Kg D |
| PALMAC 630 | Palm Triple Pressed Acid | 54.0 - 57.0 | 0.5 Max. | 207.0 - 212.0 | 208.0 - 213.0 | 2Y 0.2R | 60 | | | | 2.0 Max. | 58.0 - 62.0 | 38.0 - 42.0 | 0.5 Max. | | | 1.0 Max. | 25 Kg B |
| PALMAC 640 | Palmitic Acid 60% Min. | 54.0 - 56.0 | 0.5 Max. | 207.0 - 213.0 | 208.0 - 214.0 | 2Y 0.2R | 60 | | | | 2.0 Max. | 3.0 Max. | 60.0 - 65.0 | 30.0 - 38.0 | 0.5 Max. | | 1.0 Max. | 25 Kg B |
| PALMAC 55 - 16 | Palm Triple Pressed Acid | 55.0 - 56.5 | 0.5 Max. | 205.0 - 211.0 | 206.0 - 212.0 | 2Y 0.2R | 40 | | | | 1.0 Max. | 2.0 Max. | 52.0 - 56.0 | 42.0 - 47.0 | 0.5 Max. | | 1.0 Max. | 25 Kg B |
| PALMAC 80 - 16 | Palmitic Acid 80% Min. | 55.0 Min. | 15.0 Max. | 212.0 - 222.0 | 213.0 - 225.0 | 1.0R | | | | | 2.0 Max. | 5.0 Max. | 80.0 Min. | 2.0 Max. | 5.0 - 11.0 | 3.0 Max. | 1.0 Max. | 25 Kg B |
| PALMAC 95 - 16 | Palmitic Acid 95% Min. | 60.0 - 63.0 | 0.5 Max. | 217.0 - 220.0 | 218.0 - 221.0 | 2Y 0.2R | 40 | | | | 1.0 Max. | 2.0 Max. | 95.0 Min. | 3.0 Max. | | | 1.0 Max. | 25 Kg B |
| PALMAC 98 - 16 | Palmitic Acid 98% Min. | 61.0 - 63.0 | 0.5 Max. | 217.0 - 220.0 | 218.0 - 221.0 | 2Y 0.2R | 40 | | | | 1.0 Max. | 98.0 Min. | 1.0 Max. | | | | 1.0 Max. | 25 Kg B |
| PALMAC 50 - 18 | Stearic Acid 50% Min. | 55.0 - 58.0 | 1.0 Max. | 205.0 - 208.0 | 206.0 - 209.0 | 2Y 0.2R | 50 | | | | 1.0 Max. | 44.0 - 49.0 | 50.0 - 56.0 | 1.0 Max. | | | 1.0 Max. | 25 Kg B |
| PALMAC 65 - 18 | Stearic Acid 65% Min. | 58.0 - 62.0 | 1.0 Max. | 200.0 - 207.0 | 201.0 - 208.0 | 2Y 0.2R | 50 | | | | 1.0 Max. | 30.0 - 35.0 | 65.0 - 70.0 | 1.0 Max. | | | 1.0 Max. | 25 Kg B |
| PALMAC 70 - 18 | Stearic Acid 70% Min. | 59.0 - 63.0 | 1.0 Max. | 200.0 - 207.0 | 201.0 - 208.0 | 2Y 0.2R | 50 | | | | 1.0 Max. | 24.0 - 30.0 | 70.0 - 75.0 | 1.0 Max. | | | 1.0 Max. | 25 Kg B |
| PALMAC 90 - 18 | Stearic Acid 90% Min. | 65.0 - 68.0 | 1.0 Max. | 196.0 - 202.0 | 197.0 - 203.0 | 2Y 0.2R | 60 | | | | | 4.0 - 7.0 | 92.0 Min. | 1.0 Max. | | | 1.5 Max. | 25 Kg B |
| PALMAC 98 - 18 | Stearic Acid 98% Min. | 67.0 - 69.0 | 1.0 Max. | 194.0 - 198.0 | 195.0 - 199.0 | 2Y 0.2R | 60 | | | | | 2.0 Max. | 98.0 Min. | 1.0 Max. | | | 1.5 Max. | 25 Kg B |
| PALMAC 1400 | Stearic Acid I.V.3 Max. | 52.0 Min. | 3.0 Max. | 200.0 Min. | 200.0 Min. | 20Y 2.0R | | | | | | | VARIABLE | | | | | 25 Kg B |
| PALMAC 1500 | Rubber Grade Stearic Acid | 52.0 Min. | 6.0 Max. | 195.0 Min. | 196.0 Min. | 20Y 2.0R | | | | | | | VARIABLE | | | | | 25 Kg B |
| PALMAC 1600 | Rubber Grade Stearic Acid | 52.0 Min. | 6.0 Max. | 195.0 Min. | 196.0 Min. | 6 Gardner | | | | | | | VARIABLE | | | | | 25 Kg B |
| PALMAC 750 | Oleic Acid 72% Min. | 8.0* Max. | 88.0 - 95.0 | 195.0 - 205.0 | 197.0 - 207.0 | 15Y 2.0R | | ← | | | 13.0 Max. | | | | 72.0 Min. | 13.0 Max. | 1.0 Max. | 185 Kg D |
| PALMAC 760 | Oleic Acid 75% Min. | 7.0* Max. | 88.0 - 95.0 | 195.0 - 205.0 | 197.0 - 207.0 | 8Y 1.0R | | ← | | | 12.0 Max. | | | | 75.0 Min. | 13.0 Max. | 1.0 Max. | 185 Kg D |
| PALMAC 770 | Oleic Acid 80% Min. | 9.0* Max. | 94.0 - 102.0 | 194.0 - 204.0 | 195.0 - 205.0 | 10Y 1.5R | | ← | | | 6.0 Max. | | | | 80.0 Min. | 14.0 Max. | 1.0 Max. | 185 Kg D |

Glycerine Specifications

| PRODUCT NAME | DESCRIPTION | IDENTIFICATION TEST | SPECIFIC GRAVITY 25° / 25°C | COLOUR APHA Max. | RESIDUE ON IGNITION Max. | SULPHATE ppm Max. | CHLORIDE ppm Max. | HEAVY METALS ppm Max. | LIMIT OF CHLORINATED COMPOUNDS ppm Max. | FA & ESTERS ml of 0.5N NaOH Max. | ASSAY | WATER | RELATED COMPOUNDS | PACKING |
|---------------------|------------------------------|---------------------|-----------------------------|------------------|--------------------------|-------------------|-------------------|-----------------------|---|----------------------------------|------------|-----------|-------------------|----------|
| GLY. 99.7% Min. USP | Natural Glycerine 99.7% Min. | Pass | 1.2612 Min. | 5 | 0.01% | 20 | 10 | 5 | 30 | 1 | 99.7% Min. | 0.3% Max. | 1.0% Max. | 250 Kg D |
| GLY. 99.5% Min. USP | Natural Glycerine 99.5% Min. | Pass | 1.2606 Min. | 5 | 0.01% | 20 | 10 | 5 | 30 | 1 | 99.5% Min. | 0.5% Max. | 1.0% Max. | 250 Kg D |

| PRODUCT NAME | DESCRIPTION | IDENTIFICATION TEST | REFRAC. INDEX nD20 | COLOUR APHA Max. | SULPHATED ASH Max. | CHLORIDE ppm Max. | HEAVY METALS ppm Max. | SUGARS | HALOGENATED COMPOUNDS ppm Max. | ALDEHYDES ppm Max. | ESTERS ml of 0.1M HCl Min. | ACIDITY 0.1M NaOH Max. | ASSAY | WATER | IMPURITY A & RELATED SUBSTANCES | PACKING |
|--------------------|------------------------------|---------------------|--------------------|------------------|--------------------|-------------------|-----------------------|--------|--------------------------------|--------------------|----------------------------|------------------------|------------|-----------|---------------------------------|----------|
| GLY. 99.7% Min. BP | Natural Glycerine 99.7% Min. | Pass | 1.4734 Min. | 5 | 0.01% | 10 | 5 | Pass | 35 | 10 | 8.0 | 0.2 | 99.7% Min. | 0.3% Max. | 0.5% Max. | 250 Kg D |
| GLY. 99.5% Min. BP | Natural Glycerine 99.5% Min. | Pass | 1.4730 Min. | 5 | 0.01% | 10 | 5 | Pass | 35 | 10 | 8.0 | 0.2 | 99.5% Min. | 0.5% Max. | 0.5% Max. | 250 Kg D |

B - Polyethylene - laminated bags
D - Steel drums (polyethylene / epoxy lined)
P - Plastic drums

* Cloud Point
R - Red
Y - Yellow

We offer a comprehensive range of vegetable derived fatty acids and glycerine for industrial and edible purposes. PALMAC® fatty acids and glycerine can be supplied as Halal, food and Kosher grades carrying the (K) (P) Seal of Kashruth RSPQ SCCS certified fatty acids and glycerine are available.

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