



C&E

*Chemical Broker*

# Oleochemicals

- Chemical Broker is one of the largest Oleochemical distributor in the world, with 15% market share of basic oleochemicals.
- Head quartered in USA, global sales are coordinated out of a network of offices focusing on key accounts and regions.
- Production facilities are located in USA, Malaysia, Indonesia and Europe.



## **Chemical Broker Oleochemicals**

- Distilled Fatty Acids
- Fractionated Fatty Acids
- Stearic Acid
- Refined Glycerine
- Soap Noodles
- Ester
- Glycerine Monostearate & Glycerine Monooleate
- Fatty Alcohols
- Palm Wax

## Distilled Fatty Acids

Product Code	DC-0818	DC-0818H	DC-1218	DC-1218H	DK-0818	DK-0818H
Product Description	Distilled Coconut Fatty Acid	Hardened Distilled Coconut Fatty Acid	Distilled Topped Coconut Fatty Acid	Hardened Distilled Topped Coconut Fatty Acid	Distilled Palm Kernel Fatty Acid	Hardened Distilled Palm Kernel Fatty Acid
Acid Value (mg KOH/g)	265 – 275	266 – 275	250 – 260	251 – 260	248 – 263	248 – 263
Sap. Value (mg KOH/g)	266 – 275	266 – 275	251 – 261	252 – 260	249 – 264	249 – 264
Iodine Value (g I / 100 g)	7 – 11	0.5 Max.	15 Max.	0.5 Max.	20 Max.	1 Max.
Titre (°C)	22 – 26	24 – 30	23 – 30	29 – 32	20 – 28	28 – 34
Color (Lovibond, R/R)	1 / 10 Max.	0.5 / 5 Max.	1 / 10 Max.	1 / 10 Max.	0.5 / 5 Max.	0.5 / 5 Max.
Moisture (%)	0.1 Max.	0.2 Max.	0.2 Max.	0.2 Max.	-	-
Unsaponification Matter (%)	-	0.5 Max.	-	0.5 Max.	-	-
Composition (%)	-	-	-	-	-	-
C6	1 Max.	0.5 Max.	2 Max.	3 Max.	0.5 Max.	0.5 Max.
C8	5 – 8	5 – 8	2 Max.	3 Max.	2 – 5	2 – 5
C10	5 – 8	5 – 8	2 Max.	0.5 Max.	2 – 5	2 – 5
C12	47 – 53	47 – 53	48 – 58	50 – 58	46 – 54	46 – 54
C14	15 – 21	15 – 21	16 – 23	18 – 24	13 – 18	13 – 18
C16	8 – 12	8 – 12	7 – 15	9 – 14	6 – 12	6 – 12
C18	4 Max.	6 – 13	2 – 6	7 – 15	1 – 4	14 – 24
C18-1	5 - 12	0.5 Max.	5 – 12	0.5 Max.	12 – 18	1 Max.
C18-2	2 Max.	-	4 Max.	0.5 Max.	4 Max.	-
Others	0.5 Max.	-	-	0.5 Max.	-	-
Product form	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
Packaging	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk
CAS No.						

- PE = 180 Kg. Pe Drum

- DR = 180 Kg. Steel Drum

- ISO = 20 MT ISO Tank

## Distilled Fatty Acids

Product Code	DK-1218	DK-1218H	DP-1601	DP-1601H	DP-1602	DP-1602H	DP-1603
<b>Product Description</b>	Distilled Topped Palm Kernel Fatty Acid	Hardened Distilled Topped Palm Kernel Fatty Acid	Distilled Palm Oil Acid	Distilled Palm Oil Partially Hardened	Distilled Palm Stearine Fatty Acid	Distilled Palm Stearine Fatty Acid Partially Hardened	Distilled Palmitic Acid
<b>Acid Value (mg KOH/g)</b>	246 – 255	246 – 258	203 – 210	204 – 211	206 – 214	205 – 210	210 – 225
<b>Sap. Value (mg KOH/g)</b>	247 – 256	247 – 259	204 – 211	205 – 212	207 – 215	206 – 211	211 - 226
<b>Iodine Value (g I / 100 g)</b>	14 – 22	1 Max.	45 – 56	30 Min.	28 Min.	30 – 42	5 – 10
<b>Titre (°C)</b>	25 – 28	33 – 38	45 – 48.5	42 – 50	47 – 54	42 – 52	58 - 63
<b>Color (Lovibond, R/R)</b>	0.5 / 5 Max.	0.5 / 5 Max.	2 / 20 Max.	1 / 5 Max.	0.5 / 5 Max.	2 / 10 Max.	3 / 30 Max.
<b>Moisture (%)</b>	0.5 Max.	0.2 Max.	0.2 Max.	0.2 Max.	-	-	-
<b>Unsaponification Matter (%)</b>	1 Max.	-	0.5 Max.	-	-	-	-
<b>Composition (%)</b>	-	-	-	-	-	-	-
<b>C6</b>	0.1 Max.	2 Max.	-	-	-	-	3 Max.
<b>C8</b>	0.1 Max.	2 Max.	-	-	-	-	3 Max.
<b>C10</b>	1.5 Max.	2 Max.	-	-	-	-	3 Max.
<b>C12</b>	48 – 58	48 – 58	1 Max.	3 Max.	1 Max.	2 Max.	3 Max.
<b>C14</b>	14 – 20	14 – 20	2 Max.	3 Max.	2 Max.	2 Max.	3 Max.
<b>C16</b>	7 – 12	7 – 12	43 – 48	40 – 50	55 – 65	40 – 48	83 Min.
<b>C18</b>	1.5 – 4	14 – 24	3 – 10	11 – 21	4 – 8	12 – 22	17 Max.
<b>C18-1</b>	12 – 20	1 Max.	37 – 40	28 – 36	20 – 35	28 – 38	17 Max.
<b>C18-2</b>	1 – 4	0.5 Max.	6 – 11	2 – 6	8.0 Max.	8 Max.	17 Max.
<b>Others</b>	-	-	1 Max.	1 Max.	-	-	-
<b>Product form</b>	Liquid	Liquid	Solid	Solid	Solid	Solid	Solid
<b>Packaging</b>	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PE, DR, ISO, Bulk	PB, BB, PE, DR, ISO, Bulk
<b>CAS No.</b>							

• PB = 25 Kg. net pp laminated paper bag.

• BB = 800 Kg. net jumbo bag.

• DR = 180 Kg. steel drum

• ISO = 20 MT ISO Tank

## Fractionated Fatty Acids

Product Code	CC-0810	DC-0810	CA-0899	CA-1099	LA-1299	LA-1298	LA-1275
Product Description	Caprylic / Capric Acid	Caprylic / Capric Acid	Caprylic Acid 99%	Capric Acid 99%	Lauric Acid 99%	Lauric Acid 98%	Lauric Acid 75%
Acid Value (mg KOH/g)	352 – 365	350 – 365	383 – 390	321 – 329	278 – 282	279 – 281	265 – 275
Sap. Value (mg KOH/g)	354 – 367	351 – 376	384 – 391	322 – 330	279 – 283	279 – 282	266 – 276
Iodine Value (g I / 100 g)	1.5 Max.	0.5 Max.	0.5 Max.	0.5 Max.	0.2 Max.	0.2 Max.	0.5 Max.
Titre (°C)	7 Max.	7 Max.	15 – 18	30 – 32	42 – 45	42 – 45	32 – 38
Color (Lovibond, R/R)	3 / 25Y	0.5 / 5 Max.	0.5 / 5 Max.	0.5 / 5 Max.	0.2 / 2 Max.	0.2 / 1 Max.	0.3 / 3 Max.
Moisture (%)	-	-	-	-	-	-	-
Unsaponification Matter (%)	-	-	-	-	-	-	-
Composition (%)	-	-	-	-	-	-	-
C6	4 Max.	2 Max.	1 Max.	0.5 Max.	-	0.5 Max.	1 Max.
C8	45 – 60	52 Min.*	99 Min.	1 Max.	-	0.5 Max.	1 Max.
C10	35 – 50	42 – 48*	1 Max.	99 Min.	1 Max.	2 Max.	1 Max.
C12	2 Max.	1.5 Max.	-	1 Max.	99 Min.	98 Min.	72 – 78
C14	-	-	-	-	1 Max.	2 Max.	22 – 28
C15	-	-	-	-	-	-	-
C16	-	-	-	-	-	-	4 Max.
C16-1	-	-	-	-	-	-	-
C17	-	-	-	-	-	-	-
C18	-	-	-	-	-	-	0.5 Max.
C18-1	-	-	-	-	-	-	0.5 Max.
C18-2	-	-	-	-	-	-	0.5 Max.
C18-3	-	-	-	-	-	-	-
>C18	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Product form	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads
Packaging	DR, ISO, Bulk	DR, ISO, Bulk	DR, ISO, Bulk	DR, ISO, Bulk	PB, BB, ISO, Bulk	PB, BB, ISO, Bulk	DR, ISO, Bulk
CAS No.							

• PB = 25 Kg. net pp laminated paper bag.

• BB = 800 Kg. net jumbo bag.

• DR = 180 Kg. steel drum

• ISO = 20 MT ISO Tank

## Fractionated Fatty Acids

Product Code	MA-1499	MA-1498	PA-1698	PA-1695	OA-7075	OA-7070
Product Description	Myristic Acid 99%	Myristic Acid 98%	Palmitic Acid 98%	Palmitic Acid 95%	Oleic Acid Vegetable Based C18:1 (75%)	Oleic Acid Vegetable Based C18:1 (70%)
Acid Value (mg KOH/g)	244 – 248	244 – 248	217 – 220	217 – 221	195 – 205	195 – 205
Sap. Value (mg KOH/g)	245 – 249	245 – 249	218 – 221	218 – 222	197 – 207	197 – 207
Iodine Value (g I / 100 g)	0.5 Max.	0.5 Max.	0.5 Max.	2 Max.	90 Min.	88 – 96
Titre (°C)	53 – 55	53 – 55	61 – 63	60 – 63	9 Max.	10 Max.
Color (Lovibond, R/R)	0.2 / 2 Max.	0.2 / 2 Max.	0.3 / 2 Max.	0.3 / 3 Max.	1 / 10 Max.	1.5 / 15 Max.
Moisture (%)	-	-	-	-	-	0.3 Max.
Unsaponification Matter (%)	-	-	-	-	-	-
Composition (%)	-	-	-	-	-	-
C6	-	-	0.2 Max.	5 Max.	11 Max.	15 Max.
C8	-	-	0.2 Max.	5 Max.	11 Max.	15 Max.
C10	-	-	0.2 Max.	5 Max.	11 Max.	15 Max.
C12	1 Max.	1.5 Max.	0.2 Max.	5 Max.	11 Max.	15 Max.
C14	99 Min.	98 Min.	2 Max.	5 Max.	11 Max.	15 Max.
C15	-	0.5 Max.	1 Max.	1 Max.	11 Max.	15 Max.
C16	1 Max.	1 Max.	98 Min.	95 Min.	11 Max.	15 Max.
C16-1	-	-	-	-	11 Max.	15 Max.
C17	-	-	1.5 Max.	-	11 Max.	15 Max.
C18	-	-	1 Max.	5 Max.	11 Max.	15 Max.
C18-1	-	-	1 Max.	5 Max.	75 Min.	70 Min.
C18-2	-	-	1 Max.	5 Max.	14 Max.	13 Max.
C18-3	-	-	1 Max.	-	-	-
>C18	-	-	1 Max.	-	-	-
Others	-	-	1 Max.	-	-	1 Max.
Product form	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid	Liquid
Packaging	PB, BB, ISO, Bulk	PB, BB, ISO, Bulk	PB, BB, ISO, Bulk	PB, BB, ISO, Bulk	DR, ISO, Bulk	DR, ISO, Bulk
CAS No.						

• PB = 25 Kg. net pp laminated paper bag.

• BB = 800 Kg. net jumbo bag.

• DR = 180 Kg. steel drum

• ISO = 20 MT ISO Tank



## Stearic Acid

Product Code	SA-1892	SA-1865	SA-1850	SA-1843	SA-1838	SA-1810	SA-1804
<b>Product Description</b>	Stearic Acid 92%	Stearic Acid 65%	Stearic Acid 50% Triple Pressed	Stearic Acid 43% Triple Pressed	Stearic Acid 38% Triple Pressed	Rubber Grade Stearic Acid	Rubber Grade Stearic Acid
<b>Acid Value (mg KOH/g)</b>	195 – 199	202 – 209	206 – 209	205 – 211	206 – 213	195 Min.	195 Min.
<b>Sap. Value (mg KOH/g)</b>	196 – 200	203 – 210	207 – 210	206 – 211	207 – 214	196 Min.	196 Min.
<b>Iodine Value (g I / 100 g)</b>	2 Max.	0.5 Max.	0.5 Max.	0.5 Max.	1 Max.	4 Max.	10 Max.
<b>Titre (°C)</b>	66 – 70	58 – 63	55 – 57	54 – 57	54 – 56	52 – 57	52 Min.
<b>Color (Lovibond, R/R)</b>	0.5 / 2 Max.	0.2 / 1.5 Max.	0.3 / 1.3 Max.	0.5 / 5 Max.	0.5 / 1.3 Max.	0.5 / 5 Max.	5 / 50 Max.
<b>Moisture (%)</b>	0.2 Max.	0.1 Max.	0.2 Max.	-	-	-	-
<b>Unsaponification Matter (%)</b>	1 Max.	0.5 Max.	-	-	1 Max.	-	-
<b>Composition (%)</b>	-	-	-	-	-	-	-
<b>C10</b>	-	-	-	-	-	-	Variable
<b>C12</b>	-	-	-	1 Max.	1 Max.	-	Variable
<b>C14</b>	-	2 Max.	2 Max.	2 Max.	2 Max.	-	Variable
<b>C15</b>	-	-	0.5 Max.	-	-	-	Variable
<b>C16</b>	8 Max.	30 – 33	45 – 49	49 – 58	57 – 65	75 Max.	Variable
<b>C17</b>	-	-	0.5 Max.	-	-	-	Variable
<b>C18</b>	92 Min.	65 – 69	50 – 54	42 – 48	35 – 40	25 Min.	Variable
<b>C18-1</b>	2 Max.	1 Max.	0.5 Max.	1 Max.	2 Max.	-	Variable
<b>C18-2</b>	1 Max.	0.5 Max.	-	-	2 Max.	-	Variable
<b>C18-3</b>	-	-	-	-	2 Max.	-	Variable
<b>C20</b>	3 Max.	1 Max.	1 Max.	-	2 Max.	-	Variable
<b>Others</b>	-	-	-	-	2 Max.	-	Variable
<b>Product form</b>	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads	Liquid / Solid / Flakes / Beads
<b>Packaging</b>	PB, BB, DR, ISO, Bulk	PB, BB, DR, ISO, Bulk	PB, BB, DR, ISO, Bulk	PB, BB, DR, ISO, Bulk	PB, BB, DR, ISO, Bulk	PB, BB, DR, ISO, Bulk	PB, BB, DR, ISO, Bulk
<b>CAS No.</b>							

• PB = 25 Kg. net pp laminated paper bag.

• BB = 800 Kg. net jumbo bag.

• DR = 180 Kg. steel drum

• ISO = 20 MT ISO Tank

## Refined Glycerine 99.7%

Product Code	USP-997	EP-997	BP-997
Product Description	USP Grade	EP Grade	BP Grade
Appearance	Transparent	Transparent	Transparent
Glycerine Content (%)	99.7%	99.7%	99.7%
Moisture Content (%)	0.3 Max.	0.3 Max	0.3 Max
Color (mL of FeCl3)	0.4 Max.	-	-
Colo (APHA)	-	10 Max.	10 Max.
Identification A (IR)	Conform	-	-
<b>Identification B:</b>			
- Diethylene Glycol	0.1 Max.	-	-
- Ethylene Glycol	0.1 Max.	-	-
Identification C (GC)	Conform	-	-
Identification A, B, C & D	-	Conform	Conform
Specific Gravity (at 25 °C)	1.2612 Min.	-	-
Residue on Ignition (%)	0.01 Max.	-	-
Sulphate Ash (%)	-	0.01 Max.	0.01 Max.
Chlorides (ppm)	10 Max.	10 Max.	10 Max.
Sulphates (%)	0.002 Max.	-	-
Heavy Metal (ppm)	5 Max.	5 Max.	5 Max.
Chlorinated Compounds (%)	0.003 Max.	-	-
Halogenated Compounds (ppm)	-	35 Max.	35 Max.
Fatty Acid & Esters (mL of 0.5N NaOH/50 g)	1 Max.	-	-
Impurity A (Deg) & Related Compounds	-	Conform	Conform
<b>Related Compounds:</b>			
- Individual Impurity (%)	0.1 Max.	-	-
- Total Impurities (%)	1 Max.	-	-
Acidity & Alkalinity (mL of 0.1M NaOH/50 mL solution S)	-	0.2 Max.	0.2 Max.
Refractive Index (n <sub>20</sub> /D)	-	1.470 – 1.475	1.470 – 1.475
Aldehydes (ppm)	-	10 Max.	10 Max.
Esters (mL of 0.1M HCl/50 mL solution S)	-	8 Min.	8 Min.
Sugar	-	Pass	Pass
Product Form	Liquid	Liquid	Liquid
Packaging	PE, DR, ISO, FB	PE, DR, ISO, FB	PE, DR, ISO, FB
CAS No.			

• FB = 20 mt flexibag.

• PE = 250 kg. pe drum

• DR = 250 kg. steel drum

• IBC = 1250 kg ibc tank

• ISO = 20 MT ISO Tank

## Soap Noodle

Product Code	SN-6040	SN-7030	SN-8020	SN-8021	SN-9010	SN-9015	SN-9050
Colour	White	White	White	White	White	White	White
TFM (%)	79.5 – 81.5	78.5 – 81.5	78.5 – 81.5	78.5 – 81.5	78 Min.	72 Min.	74 Min.
Moisture (%)	11 – 13	10.5 – 13.5	10.5 – 13.5	10.5 – 13.5	15 Max.	20 Max.	18 Max.
FFA (% as Palmitic)	1.5 Max.	1.5 Max.	1.5 Max.	-	1.5 Max.	-	1.5 Max.
Free Alkali (% as NaOH)	-	-	-	0.05 Max.	-	0.1 Max.	-
Titre	41 Max.	44 Max.	46 Max.	47 Max.	52 Max.	47 Max.	-
Chloride (% as NaCl)	0.4 – 0.7	0.4 – 0.7	0.4 – 0.7	0.4 – 0.7	0.4 – 0.7	0.4 – 0.7	0.4 – 0.7
Glycerine (%)	1 Max.	1 Max.	1 Max.	1 Max.	1 Max.	1 Max.	1 Max.
Chelating Agent	Present	Present	Present	Present	Present	Present	Present
Packaging	PB, BB	PB, BB	PB, BB	PB, BB	PB, BB	PB, BB	PB, BB
CAS No.							

- PB = 25 kg. net pp laminated paper bag.
- BB = 800 kg. net jumbo bag

## Ester

Product Code	MCT	IPL	IPM	IPP	2-EHP
Product Description	Caprylic / Capric Triglycerides (55 / 45)	Isopropyl Laurate 99%	Isopropyl Myristate 98%	Isopropyl Palmitate 98%	2-Ethyl Hexyl Palmitate 98%
Acid Value (mg KOH/g)	0.1 Max.	0.5 Max.	0.5 Max.	0.5 Max.	0.2 Max.
Sap. Value (mg KOH/g)	325 – 345	228 – 234	206 – 211	185 – 191	150 – 155
OHV (mg KOH/g)	10 Max.	-	-	-	-
Color (APHA)	50 Max.	30 Max.	30 Max.	25 Max.	30 Max.
Moisture (%)	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.
Ash Content (%)	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.
PV (meg/Kg)	1 Max.	0.6 Max.	0.6 Max.	0.6 Max.	0.6 Max.
Viscosity (mPa.s 20°C)	25 - 33	4 – 5	5 – 6	5 – 10	5 – 10
Density (g/cm 20°C)	0.930 – 0.960	0.851 – 0.854	0.852 – 0.855	0.852 – 0.855	0.855 – 0.865
Refractive Index 20°C)	1.448 – 1.451	1.428 – 1.432	1.434 – 1.437	1.436 – 1.440	1.446 – 1.448
Compisition (%)	-	-	-	-	-
C6	0.5 Max.	-	-	-	-
C8	53 Min.	-	-	-	-
C10	36 – 47	1 Max.	-	-	-
C12	1.5 Max.	99 Min.	-	-	-
C14	-	1 Max.	98 Min.	-	-
C16	-	-	-	95 Min.	98 Min.
Product Form	Liquid	Liquid	Liquid	Liquid	Liquid
Packaging	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO
CAS No.					

- DR = 180 kg. steel drum
- IBC = 900 kg ibc tank
- ISO = 20 MT ISO Tank

## Glycerine Monostearate & Glycerine Monooleate

Product Code	DMG-98	DMG-95	DMG-90	GMS-60	GMS-40	GMO-60
Product Description	Distilled Glycerine Monostearate 98%	Distilled Glycerine Monostearate 95%	Distilled Glycerine Monostearate 90%	Glycerine Monostearate 60%	Glycerine Monostearate 40%	Glycerine Monooleate 60%
GMS Content (%)	98 Min.	95 Min.	90 Min.	60 Min.	40 Min.	-
GMO Content (%)	-	-	-	-	-	60 Min.
Acid Value (mg KOH/g)	2 Max.	2 Max.	2.5 Max.	2.5 Max.	5 Max.	6 Max.
Iodine Value (g I / 100g.)	1 Max.	1 Max.	1 Max.	2 Max.	2 Max.	65 – 95
Glycerine (%)	1 Max.	1 Max.	1 Max.	1 Max.	1 Max.	6 Max.
Titre (°C)	60 – 70	60 – 70	60 – 70	-	-	-
Melting Point (°C)	-	-	-	55 – 65	55 – 65	36 – 40
Arsenic (%)	0.0001 Max.	0.0001 Max.	0.0001 Max.	0.0002 Max.	0.0002 Max.	Conforms
Lead (%)	0.0001 Max.	0.0001 Max.	0.0001 Max.	0.0002 Max.	0.0002 Max.	Conforms
Heavy Metal (%)	0.0005 Max.	0.0005 Max.	0.0005 Max.	0.0005 Max.	0.0005 Max.	Conforms
Ash (%)	0.1 Max.	0.1 Max.	0.1 Max.	0.5 Max.	0.5 Max.	0.1 Max.
Product Form	Beads	Beads	Beads	Beads	Beads	Liquid
Packaging	PB, BB	PB, BB	PB, BB	PB, BB	PB, BB	FB, PE, DR, ISO, Bulk
CAS No.						

• PB = 25 kg. net pp laminated paper bag

• BB = 800 Kg.net jum bag

• FB = 20 mt flexibag

• PE = 180 kg. pe drum

• DR = 180 kg. steel drum

• ISO = 20 mt iso tank

## Fatty Alcohol

Product Code	0810	1299	1214	1216	1499	1218	1618
Acid Value (mg KOH/g)	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.
Sap. Value (mg KOH/g)	1.5 Max.	0.4 Max.	0.5 Max.	0.5 Max.	0.5 Max.	1.2 Max.	1 Max.
Iodine Value (g I / 100g)	0.5 Max.	0.2 Max.	0.3 Max.	0.3 Max.	0.3 Max.	0.5 Max.	0.5 Max.
Carbonyl Value (mg/kg)	150 Max.	150 Max.	150 Max.	150 Max.	150 Max.	150 Max.	150 Max.
Hydroxyl Value (mgKOH/g)	385 - 410	298 - 302	285 - 295	280 - 290	255 - 262	265 - 279	210 - 220
Color (APHA)	10 Max.	10 Max.	10 Max.	10 Max.	10 Max.	10 Max.	10 Max.
Moisture Content (%)	0.5 Max.	0.1 Max.	0.1 Max.	0.1 Max.	0.1 Max.	0.2 Max.	0.3 Max.
Fatty Alcohol Content (%)	99 Min.	99 Min.	99 Min.	99 Min.	99 Min.	99 Min.	99 Min.
Fatty Alcohol Composition (%)	-	-	-	-	-	-	-
C6	5 Max.	-	-	-	-	3 Max.	-
C8	45 – 65	-	-	-	-	3 Max.	-
C10	35 – 55	2 Max.	2 Max.	2 Max.	2 Max.	3 Max.	-
C12	5 Max.	98 Min.	68 – 70	65 – 71	2 Max.	48 – 58	3 Max.
C14	5 Max.	2 Max.	20 – 30	22 – 28	98 Min.	18 – 24	3 Max.
C16	5 Max.	2 Max.	2 Max.	4 – 8	2 Max.	8 – 12	22 – 32
C18	5 Max.	-	-	0.5 Max.	2 Max.	11 – 15	66 – 76
C20	5 Max.	-	-	-	-	1 Max.	3 Max.
Product Form	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
Packaging	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO	DR, IBC, ISO
CAS No.							

- DR = 180 kg. steel drum

- ISO = 20 MT ISO Tank

## Palm Wax

Product Code	PF-1705	PF-1508	PF-1505	PF-363
Acid Value (mg KOH/g)	209 – 214	110 – 140	125 – 165	-
FFA as Palmitic Acid (%)	-	-	-	1 Max.
Colour Lovibond (Lov, R/Y)	0.5 R / 5 Y	2.5 r / 25 Y	2.5 R Max.	3 R / 30 Y
Iodine Value (g I / 100 g)	0.5 Max.	10 Max.	8 Max.	6 – 8
Sap. Value (mg KOH/g)	210 – 215	-	-	-
Titre (°C)	53 – 55	-	-	-
SMP (°C)	-	45 – 55	50 – 60	56 – 60
M&I (%)	-	-	0.25 Max.	1 Max.
Product Form	Liquid / Solid	Liquid / Solid	Liquid / Solid	Liquid / Solid
Packaging	PB, BB, Bulk	PB, BB, Bulk	PB, BB, Bulk	PB, BB, Bulk
CAS No.				

- PB = 25 kg. net pp laminated paper bag

- BB = 800 Kg.net jum bag

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