



FIROCID PRODUCTS SPECIFICATION

PRODUCT CODE	PRODUCT DESCRIPTION	CHEMICAL PROPERTIES				PHYSICAL PROPERTIES			FATTY ACID COMPOSITION (%), by GC										
		Acid Value (mgKOH/g)	Saponification Value (mgKOH/g)	Iodine Value (gI2/100g)	Moisture (%)	Titer (°C)	Color Lovibond 5¼ (Y/R)	Color APHA (Hazen)	C6: Caproic Acid	C8: Caprylic Acid	C10: Capric Acid	C12: Lauric Acid	C14: Myristic Acid	C16: Palmitic Acid	C18: Stearic Acid	C18.1: Oleic Acid	C18.2: Linoleic Acid	C20: Arachidic Acid	Others
SPLITTER FATTY ACID																			
FIROCID 1112	Split Palm Kernel Fatty Acid	253 - 260	254 - 261	17.0 - 20.0	0.5 max	-	-	-	1 max	3 - 6	2.5 - 7	44 - 50	13 - 18	7.5 - 14	1.5 - 4	12 - 20	2 - 4	-	1 max
FIROCID 1116	Split Refine Bleach Deodorize Palm Stearine Fatty Acid	205 - 215	205 - 220	26.0 min	0.5 max	-	-	-	1 max	1 max	1 max	3 max	3 max	55 - 68	3 - 7	20 - 30	3 - 7	2 max	
FRACTIONATED FATTY ACID																			
FIROCID 0680	Caproic Acid 80% min	450 min	-	3 max	0.3 max	-	-	-	80 min	-	-	-	-	-	-	-	-	-	-
FIROCID 0899	Caprylic Acid 99% min	383 - 390	384 - 391	0.5 max	0.3 max	15 - 17	3.0/0.3	60 max	1 max	99 min	1 max	-	-	-	-	-	-	-	0.6 max
FIROCID 1099	Capric Acid 99% min	323 - 330	324 - 331	0.5 max	0.3 max	30 - 32	3.0/0.3	60 max	-	1 max	99 min	1 max	-	-	-	-	-	-	0.8 max
FIROCID 0810	Caprylic - Capric Acid Blend	353 - 367	354 - 368	0.5 max	0.3 max	6 max	3.0/0.3	60 max	0.5 max	53 - 63	35 - 45	1.5 max	-	-	-	-	-	-	0.5 max
FIROCID 1270	Lauric Acid 70% min	265 - 275	266 - 276	0.5 max	0.3 max	32 - 36	2.0/0.2	50 max	-	-	1 max	70 - 77	22 - 29	2 max	-	-	-	-	0.5 max
FIROCID 1299	Lauric Acid 99% min	278 - 282	279 - 283	0.3 max	0.3 max	42 - 44	1.2/0.2	40 max	-	-	1 max	99 min	1 max	-	-	-	-	-	0.5 max
FIROCID 1499	Myristic Acid 99% min	243 - 247	244 - 248	0.3 max	0.3 max	52 - 54	1.2/0.2	40 max	-	-	-	1 max	99 min	1 max	-	-	-	-	0.5 max
FIROCID 1685	Palmitic Acid 85% min	212 - 230	213 - 231	15 max	0.3 max	55 min	15.0/1.5	-	C14 Below = 15 max				85 min	C18 total = 20 max				-	1 max
FIROCID 1698	Palmitic Acid 98% min	216 - 220	217 - 221	0.3 max	0.3 max	60 - 63	2.0/0.2	40 max	-	-	-	-	2 max	98 min	2 max	-	-	-	1 max
STEARIC ACID																			
FIROCID 1855	Stearic Acid 55%	204 - 210	205 - 211	0.7 max	0.3 max	55.5 - 57.5	3.0/0.3	60 max	-	-	-	3 max		41 - 47	52 - 58	-	-	-	1 max
FIROCID 1865	Stearic Acid 65%	200 - 206	201 - 207	0.8 max	0.3 max	58 - 61	3.0/0.3	60 max	-	-	-	3 max		30 - 36	63 - 68	-	-	-	1 max
FIROCID 1892	Stearic Acid 92%	194 - 201	195 - 202	1.0 max	0.3 max	66 - 69	3.0/0.5	100 max	-	-	-	-	-	8 max	92 min	-	-	1.5 max	1 max
FIROCID 1898	Stearic Acid 98%	194 - 201	195 - 202	1.0 max	0.3 max	68 - 72	3.0/0.3	100 max	-	-	-	-	-	2 max	98 min	1 max	-	-	1 max
FIROCID 1843	Triple Pressed Stearic Acid	206 - 212	207 - 213	0.5 max	0.3 max	54 - 57	2.0/0.2	50 max	-	-	-	3 max		55 - 60	39 - 45	-	-	-	1 max
FIROCID 1808	Rubber Grade Stearic Acid	195 min	196 min	8 max	-	52 min	20.0/2.0	-	Variable										
OLEIC ACID																			
FIROCID 1843	Oleic Acid	196 - 204	197 - 205	86 min	0.3 max	10 max	15.0/2.0	225 max	-	-	-	13 max				75 min	14 max	-	2 max
DISTILLATE FATTY ACID																			
FIROCID 1201	Distillate Coconut Fatty Acid	261 - 275	262 - 276	7 - 12	0.3 max	22 - 26	5.0/0.7	125 max	0.5 max	4 - 8	5 - 10	46 - 53	15 - 21	5 - 13	4 max	5 - 12	3 max	-	-
FIROCID 1202	Distillate Palm Kernel Fatty Acid	248 - 262	249 - 263	15 - 20	0.3 max	22 - 27	5.0/0.5	100 max	-	1 - 4	1 - 4	46 - 52	13 - 18	7 - 14	1 - 4	12 - 19	1 - 3	-	0.5 max
FIROCID 1601	Distillate Palm Stearine Fatty Acid	207 - 214	208 - 215	28 - 39	0.3 max	47 - 53	3.0/0.5	100 max	-	-	-	4 max		56 - 65	4 - 7	24 - 33	4 - 8	-	0.5 max
FIROCID 1602	Distillate Palm Oil Fatty Acid	204 - 210	205 - 211	46 - 56	0.3 max	42 - 48	3.0/0.5	100 max	-	-	-	4 max		40 - 48	3 - 9	35 - 44	7 - 12	-	0.5 max
FIROCID 1618	PK-1618 Fatty Acid	195 - 210	196 - 211	62 min	-	38 max	-	-	C14 Below = 4 max				17 - 25	6 - 11	55 min	7 - 12	-	2.0 max	
REFINED GLYCERINE																			
PRODUCT CODE	PRODUCT DESCRIPTION	Glycerine Content (%)	Specific Gravity 25/25°C (-)	Color APHA	Water (%)	Residue on Ignition (%)	Chlorides (ppm)	Sulfate (ppm)	Chlorinated Compounds (ppm)	Fatty Acid & Esters (ml 0.5N NaOH/50g)	DEG & EG (%)	Individual Impurities (%)	Total Impurities (%)						
FIROCID 9970	Refined Glycerine 99.7% (oleo based)	99.7 min	1.2600 min	10 max	0.3 max	0.01 max	10 max	20 max	30 max	1.0 max	Passed	0.1 max	1.0 max						
FIROCID 9971	Refined Glycerine 99.7% (bio based)	99.7 min	1.2600 min	10 max	0.3 max	0.01 max	10 max	20 max	30 max	1.0 max	Passed	0.1 max	1.0 max						