

Specifications of Methyl Esters of Vegetable Oils



PARAMETERS	UNIT	COCONUT	GROUNDNUT	SUNFLOWER	RICEBRAN	PALM	CASTOR	PALM KERNEL	SOYABEAN
Ester Content	%	96.5 Min	96.5 Min	96.5 Min	96.5 Min	96.5 Min	96.5 Min	96.5 Min	96.5 Min
Acid Value	mg KOH/gm	0.5 max.	0.5 max.	0.5 max.	0.5 max.	0.5 max.	0.5 max.	0.5 max.	0.5 max.
Iodine Value (Wij's)	-	9 - 11	85 - 95	120 - 144	92 - 100	46 - 55	82 - 88	12 - 18	120 - 141
Flash Point	°C	134 - 140	134 - 140	134 - 140	134 - 140	134 - 140	134 - 140	134 - 140	134 - 140
Hydroxyl Value	-	-	-	-	-	-	160 - 170	-	-
Viscosity	g/sec. @ 25° C	4.5 - 5.5	4.5 - 6.0	4 - 5.5	4.5 - 5.5	4.5 - 5.5	3.5 - 4.5	4.5 - 5.5	4.5 - 5.5
Moisture	-	0.2 max	0.2 max	0.2 max	0.2 max	0.2 max	0.2 max	0.2 max	0.2 max
Density	g/sec. @ 25° C	0.88 - 0.89	0.87 - 0.88	0.88 - 0.89	0.88 - 0.89	0.87 - 0.89	0.92 - 0.94	0.87 - 0.89	0.88 - 0.89
Cetane Number	-	≥ 51	≥ 51	≥ 51	≥ 51	≥ 51	≥ 51	≥ 51	≥ 51
Sulphur Content	%	0.035 max	0.035 max	0.035 max	0.035 max	0.035 max	0.035 max	0.035 max	0.035 max
FATTY ACID COMPOSITION									
Caprylic	%	8 - 15	-	-	-	-	-	2.0 - 5.0	-
Capric	%	6 - 9	-	-	-	-	-	2 - 5	-
Lauric	%	38 - 42	-	-	-	-	-	40 - 45	-
Myristic	%	15 - 17	0.03 - 0.06	0.05 - 0.10	0.04 - 0.09	0.2 - 0.5	-	10 - 15	0.03 - 0.06
Palmitic	%	8 - 10	13 - 15	4 - 7	27 - 29	40 - 44	-	10 - 12	9 - 11
Stearic	%	2 - 5	2 - 5	2 - 5	2 - 4	2 - 5	1 - 2	1 - 3	2 - 5
Oleic	%	5 - 10	55 - 60	23 - 27	35 - 38	42 - 44	3 - 4	22 - 25	23 - 27
Ricinoleic	%	-	-	-	-	-	89 - 91	-	-
Linoleic	%	1 - 3	23 - 27	62 - 67	30 - 32	10 - 13	3 - 4	2 - 5	53 - 57
Linolenic	%	0.03	-	0.01 - 0.05	-	-	1 - 2	-	7 - 12
Arachidic	%	-	<0.01	0.2 - 0.04	0.01 - 0.03	0.01 - 0.03	-	0.03 - 0.08	0.1 - 0.3
Behenic	%	-	>0.01	-	0.03 - 0.07	0.02 - 0.05	-	-	0.01 - 0.05
USES		In Surfactants, Resin, as Biodiesel	In Surfactants and Emulsifiers, as Biodiesel	In Resin manufacturing, as Biodiesel	In Lubricants, Resin, surfactants, as Biodiesel	In Emulsifiers, Surfactants, as Biodiesel	In Lubricants, Surfactants, Anti-oxidants, as Biodiesel	In Surfactants, as Biodiesel	In Resin manufacturing, as Biodiesel

