

FOB SINGAPORE GASOIL / DIESEL SPECIFICATIONS

Property		Unit	0.001%S	0.005%S	0.05%S	0.25%S	Test Methods
			10 ppm	50 ppm	500 ppm	2500 ppm	
Acid Number, Total	Max	mg KOH/g	0.3	0.5	0.5	0.5	ASTM D664
Appearance @ 25°C	Pass Procedure 1	Visual test	Clear & bright, without undissolved sediment or free water	Clear & bright, without undissolved sediment or free water	Clear & bright, without undissolved sediment or free water		ASTM D4176 Proc 2
Ash content	Max	% weight	0.01	0.01	0.01	0.01	ASTM D482, EN ISO 6245
Cetane Index	Min	Range 0-100	46	48	48	48	ASTM D4737, EN ISO 4264
Cetane Number	Min	Range 0-100	51				ASTM D613, EN ISO 5165
Conradson Carbon Residue (10% distillation)	Max	% mass	0.2	0.2	0.2	0.1	ASTM D4530, EN ISO 10370
CFPP (Cold filter plugging point)	Max	°C	Minus 5				EN 116 / IP 309
Cloud point	Max	°C	Minus 1				ASTM 2500, ISO 3015-92, JIS K 2269-87, EN 23015
Color	Max	Grade	2	2	2	2	ASTM D1500 / IP 196
Conductivity @ 20°C	Min	pS/m	150				ASTM D2624, EN ISO 6297:1997
Copper corrosion (3 hrs @ 50°C)	Max	Class	1	1	1	1	ASTM D130, EN ISO 2160
Density @ 15°C	Min- Max	g/ml	0.820-0.845	0.82-0.86	0.82-0.86	0.82-0.86	ASTM D4052, EN ISO 3675
Distillation T90 (90% recovered)	Max	°C				360	ASTM D86, EN ISO 3405:1998
Distillation T95 (95% recovered)	Max	°C	360	360	370		ASTM D86, EN ISO 3405:1998
Distillation volume recovered @ 250°C	Max	%	65				EN ISO 3405:1998
Distillation volume recovered @ 350°C	Min	%	85				EN ISO 3405:1998
Filter blocking tendency	Max		2				ASTM D2068, IP 387
Flash point	Min	°C	66	66	66	66	ASTM D93, EN 22719
Fatty acid methyl esters (FAME)	Max	% volume	NIL	NIL	NIL	NIL	ASTM D7371
Kinematic viscosity @ 40°C	Min- Max	CST	2.0-4.5	2.0-4.5	2.0-4.5	2.0-4.5	ASTM D445, EN ISO 3104
Lubricity (HFRR) (WSD 1,4) @ 60°C	Max	microns	460	460	460	460	ASTM D6079, IP 450, ISO 12156-1
Odor			Merchantable				
Oxidation stability	Max	mg/L	25				ASTM D2274, EN ISO 12205
Particulate matter	Max	mg/kg	24				EN 12662
Polyaromatic hydrocarbons (PAHs)	Max	% weight	11	11			IP 391:1995
Pour point	Max	°C		9	9	9	ASTM D97
Sulfur content	Max	ppm	10	50	500	2500	ASTM D5453, EN ISO 20846/7 & 20884
Water content	Max	mg/kg	200				EN ISO 12937
Water & sediment	Max	% volume	0.05	0.05	0.05	0.05	ASTM D2709