

BS2869:2017 (Class D) & BS ISO 8217:2017 (DMA)

Component Name	Units	Min	Max	Method
Appearance (@15° C)		C&B, free from Visible Sediment & Water		Visual
Ash content	%		0.010	EN ISO 6245
Cetane Index ³		45		EN ISO 4264
Cetane Number		45		EN ISO 15195
Cloud (Aim)	°C		+3 (S) -2(W)	EN 23015/ISO 3015
Cold Filter Plugging Point	°C		-4 (S) -12 (W)	EN 116
Copper Corrosion	3 hr @ 50°C		Class 1	EN ISO 2160
Density	kg/l@15°C	0.8200	0.8800	EN ISO 12185
% Recovered @ 250 C	Vol %		65.0	EN ISO 3405
% Recovered @ 350 C	Vol %	85.0		EN ISO 3405
50% Recovered @	°C	240.0	340.0	EN ISO 3405
Fatty Acid Methyl Ester (FAME) Content	%		<0.1	EN 14078
Flash Point	°C	60.0		EN ISO 2719
Hydrogen Sulphide	mg/kg		2.00	IP 570
Lubricity, corrected WSD @ 60c	µm		460.0	EN ISO 12156-1
Manganese Content	mg/l		2.00	EN 16135
Carbon Residue on 10% dist residue ³	%		0.30	EN ISO 10370
Odour		Merchantable		
Oxidation Stability	g/m ³		25.0	EN ISO 12205
Pour Point	°C		0 (S) -6 (W)	ISO 3016
Strong Acid Number	mg KOH/g		0.0	BS ISO 6618
Sulphur	% (m/m)		0.10	EN ISO 20846
Total Contamination	mg/kg		24.0	EN 12662
Visco @ 40 c	mm ² /s	2.00	5.00	EN ISO 3104
Water	mg/kg		200.00	EN ISO 12937

Notes:

1, Unless otherwise advised the following seasonal dates apply at the refinery

Summer 16 March – 15 October

Winter 16 October – 15 March

2, Latest test methods or technical equivalents used

3, May contain ignition improver in which case the MCR & Cetane Index tests are not valid and cetane number will apply

4, This product shall always meet BS2869:2017 (part2 : Class D) & BS ISO 8217:2017 MGO (DMA)

5, 50% Evaporation is a HMRC requirement. Dyed when required

BS ISO 8217:2017

Characteristics	Unit	Limit	RMG 380	Test Methods
Kinematic viscosity at 50 ° C	mm ² /s ^a	Max	380,0	ISO 3104
Density at 15°C	Kg/m ³	Max	991,0	ISO3675 or ISO 12185
CCAI		Max	870	
Sulfur ^b	mass %	Max	Statutory	ISO 8754 or ISO 14596 or ASTM D 4294
Flash Point	°C	Min	60,0	ISO 2719
Hydrogen sulfide	mg/kg	Max	2,00	IP 570
Acid number ^c	mg KOH/g	Max	2,5	ASTM D664
Total Sediment - Aged	mass %	Max	0,10	ISO 10307-2
Carbon residue – Micro method	mass %	Max	18,00	ISO 10370
Pour point (upper) ^d winter	°C	Max	30	ISO 3016
Pour point (upper) ^d summer	°C	Max	30	ISO 3016
Water	volume %	Max	0,50	ISO 3733
Ash	mass %	Max	0,100	ISO 6245
Vanadium	mg/kg	Max	350	IP 501,IP 470 or ISO 14597
Sodium	mg/kg	Max	100	IP 501, IP 470
Aluminium plus silicon	mg/kg	Max	60	IP 501, IP 470 or ISO 10478
Used lubricating oil (ULO) Calcium and zinc or calcium and phosphorus	mg/kg		Calcium >30, zinc >15 or Calcium >30, phosphorus >15	IP 501 or IP 470, IP 500