



Esso Gas Oil

Marketing Technical Bulletin

Alternative Descriptions

Esso Tractor Diesel
Esso Heating Oil
CEGB Turbine Fuel
Esso Diesel Medium
Esso Marine Gasoil

Appearance

Clear & Bright liquid.
Red Colour

Specification

BS EN 2869: 2006 : Class A2 & Class D
ISO 8217:2005 Class DMA

* Contains chemical markers and dye in accordance with HM Customs & Excise requirements. The dye gives the product a red colour.

During the latter part of 2002 the Euromarker was introduced.

Carries a lower rate of duty than Diesel ULS.

Application

Used in small industrial and commercial boilers/furnaces, stationary engines, off-highway equipment, farm tractors, trains and light duty to medium speed marine applications.

Quality Data

Parameter (BS-Methods)	Units	BS or HM Customs & Excise Limit		Esso Typical
		Min	Max	
Viscosity @40°C				
Class A2 (Winter)	mm ² /s	1.50	5.50	3.4
Class A2 (Summer)	mm ² /s	2.00	5.50	4.2
Class D (Annually)	mm ² /s	1.50	5.50	3.7
Density @15°C	kg/m ³	820	-	860
Cetane Number / Index		45	-	49.0
Carbon residue (on 10% distillation residue)	% (m/m)	-	0.30	0.03
Distillation				
% (v/v) recovered @ 250°C	% v/v	-	65	22
% (v/v) recovered @ 350°C	% v/v	85	-	91
95% (v/v) recovered	°C	-	385	359
50% (v/v) recovered	°C	240	340	302
Flash point	°C	56 #	-	70
Water content	Mg/kg	-	200	80
Sediment	Mg/kg	-	24	<1
Ash Content	% (m/m)	-	0.01	0.001
Sulphur Content	mass %	-	0.10	0.0817
Copper Strip Corrosion	Rating	Class 1		Class 1
Cloud Point				
Summer	°C	-	-	2
Winter	°C	-	-	-2
CFPP				
Summer	°C	-	-4	-6
Winter	°C	-	-12	-21
Strong Acid Number	mgKOH/g	-	Nil	Nil

All product sold as MGO has flash > 60°C

Seasonality Dates

Grade	Ex Terminal
S Summer Grade	16 March to 30 September inclusive
W Winter Grade	1 October to 15 March inclusive

Additional Technical Information

	Units	Esso Gasoil
Specific Energy	Gross MJ/kg	46.27
	Net MJ/kg	43.38
Mean Specific Heat Capacity	KJ/kg °C	2.002
(Between 0 °C & 100 °C)		
Volume Correction Factor	Per °C	0.00080

Useful Conversions

Multiply this	By this	To obtain this
MJ/kg	429.923	Btu/lb
MJ/kg	Density	MJ/litre
kg/l	1000	kg/m ³

Divide this	By this	To obtain this
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Specific Energy calculated using BS2869

MJ/litre	105.506	Therms/litre
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'Typicals' are expected qualities based on recent historical production levels and should therefore not be considered a guarantee of quality

For Health & Safety information refer to the most current version of the product MSDS