



Esso Gas Oil 10ppm

Marketing Technical Bulletin

Alternative Descriptions

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

Appearance

Clear & Bright liquid.
Green Colour

Specification

IS 251: 2006

* Contains chemical markers and dye in accordance with Irish Commissioners Revenue requirements. The dye gives the product a green colour.

Application

Used in small industrial and commercial boilers/furnaces, stationary engines, off-highway equipment, farm tractors and trains.

Quality Data

Parameter (BS-Methods)	Units	IS or Revenue Limit		Esso Typical
		Min	Max	
Viscosity @40°C (Annually)	mm ² /s	2.00	5.50	2
Density @15°C	kg/m ³	820	875	833
Cetane Number / Index		45	-	54.4
Carbon residue (on 10% distillation residue)	% (m/m)	-	0.30	0.0
Distillation				
% (v/v) recovered @ 250°C	% v/v	-	65	33
% (v/v) recovered @ 350°C	% v/v	85	-	98
Flash point	°C	56	-	60
Water content	Mg/kg	-	200	59
Sediment	%	-	0,01	<0.01
Ash Content	% (m/m)	-	0.01	0.006
Sulphur Content	ppm	-	10	9.5
Copper Strip Corrosion	Rating	Class 1		Class 1
Cloud Point				
Summer	°C	-	-	-12
Winter	°C	-	-	-13
CFPP				
Summer	°C	-	-4	- 15
Winter	°C	-	-12	-22
Lubricity	µm		460	324
FAME	%		7	2
Oxidation stability				
0.0 - 7.0% FAME	g/m ³	-	25	6
2.0 - 7.0% FAME	h	20	-	>30
Strong Acid Number	mgKOH/g	-	Nil	Nil

Seasonality Dates

Grade	Ex Terminal
S Summer Grade	10th March to 30th September inclusive
W Winter Grade	1st October to 9th 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

Specific Energy calculated using BS2869

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
MJ/litre	105.506	Therms/litre

'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