



Esso Diesel

Marketing Technical Bulletin

Product

Esso Diesel

Appearance

Clear liquid. Pale straw/yellow in colour

Specification

BS EN 590*

* Esso Diesel also complies with the Motor Fuel Regulations 1999 and HM C&E requirements for ULS Diesel.

Full rate of duty is applicable.

Application - I&W

High quality fuel for use in modern diesel road vehicles. (buses, truck fleets etc)

Quality Data

Parameter (BS-Methods)	Units	BS or HM Customs & Excise Limit		Esso Typical
		Min	Max	
Cetane Number		51.0	-	52
Cetane Index		46.0	-	53
Density @15°C	kg/m ³	820	845	832
Polycyclic aromatic hydrocarbons	% mass	-	11	3
Sulphur Content	mg/kg	-	10	9
Flash Point	°C	> 55	-	65
Carbon Residue (on 10% distillation residue)	% (m/m)	-	0.3	0.0
Ash Content	% (m/m)	-	0.01	0.006
Water Content	mg/kg	-	200	59
Total Contamination	mg/kg	-	24	3
Copper Strip Corrosion	rating	Class 1		Class 1
Oxidation Stability	g/m ³	-	25	6
Lubricity, corrected wear scar diameter (wsd 1.4 @ 60°C)	µm	-	460	324
Viscosity @40°C	mm ²	2.0	4.5	2
FAME Content	%	-	5.0	4.8
Cloud Point				
Summer	°C	-	-	-12 (S)
Winter	°C	-	-	-13 (W)
CFPP				
Summer	°C	-	-5	-15 (S)
Winter	°C	-	-15	-22 (W)
Distillation				
% (v/v) recovered @ 250°C	% v/v	-	<65	33
% (v/v) recovered @ 345°C	% v/v	95	-	98
95% (v/v) recovered	°C	-	345	330

Seasonality Dates

Grade	Ex Terminal	Ex Service Station
S Summer Grade	1 October to 15 March inclusive	16 March to 21 October inclusive
W Winter Grade		22 October to 15 March inclusive

Additional Technical Information

	Units	Esso Diesel
Specific Energy	Gross	45.90
	Net	43.00
Mean Specific Heat Capacity	KJ/kg °C	2.00
(Between 0 °C & 100 °C)		
Volume Correction Factor	Per °C	0.0009

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

Specific Energy calculated using BS2869

'Typicals' are expected qualities based on recent historical production data and should therefore not be considered a guarantee of quality

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