



# Esso Diesel

## Marketing Technical Bulletin

**Product**  
Esso Diesel

**Appearance**  
Clear liquid. Pale straw/yellow in colour

**Specification**  
IS EN 590

### Application

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

### Quality Data

Parameter (BS-Methods)	Units	IS Limit		Esso Typical
		Min	Max	
Cetane Number		51.0	-	54.4
Density @15°C	kg/m <sup>3</sup>	820	845	833
Polycyclic aromatic hydrocarbons	% mass	-	11	4.9
Sulphur Content	mg/kg	-	10	8
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 <sup>3</sup>	-	25	6
Lubricity, corrected wear scar diameter (wsd 1.4 @ 60°C)	µm	-	460	324
Viscosity @40°C	mm <sup>2</sup>	2.0	4.5	2
FAME Content	%	-	7.0	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	318

### Seasonality Dates

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

### Additional Technical Information

	Units	Esso Diesel	Multiply this	By this	To obtain this
<b>Specific Energy</b>	Gross	MJ/kg	46.08		
	Net	MJ/kg	43.23		
<b>Mean Specific Heat Capacity</b>	KJ/kg °C	2.00			
(Between 0 °C & 100 °C)					
<b>Volume Correction Factor</b>	Per °C	0.0009			
			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***