Esso Diesel

MarketingTechnical 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 Min	IS Limit Max	Esso Typical
Cetane Number		51.0	-	51.7
Density @15°C	kg/m^3	820	845	844
Polycyclic aromatic hydrocarbons	% mass	-	11	6
Sulphur Content	mg/kg	-	10	7
Flash Point	°C	> 55	-	65
Carbon Residue (on 10% distillation residue)	% (m/m)	-	0.3	0.0
Ash Content	% (m/m)	-	0.01	<0.01
Water Content	mg/kg	-	200	58
Total Contamination	mg/kg	-	24	7
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	166
Viscosity @40°C	mm^2	2.0	4.5	2.5
FAME Content	%	-	7.0	6.8
Cloud Point Summer Winter	 °C °C	 - -	 - -	 -12 (S) - 7 (W)
CFPP Summer Winter	 °C °C	 - -	 -5 -15	 -15 (S) -20 (W)
Distillation % (v/v) recovered @ 250°C % (v/v) recovered @ 345°C 95% (v/v) recovered	 % v/v % v/v °C	 - 95 -	 <65 - 350	 33 98 318

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
Specific Energy	Gross	MJ/kg	46.08
	Net	MJ/kg	43.23
Mean Specific Heat Capacity (Between 0 °C & 100 °C)		KJ/kg °C	2.00
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