



## Premium Unleaded Motor Spirit (PUMS)

Product	British Standard	Application
Unleaded Petrol	BS EN228	For use in petrol engine vehicles designed to run on unleaded petrol, including those equipped with devices to reduce emitted pollutants.

Product	Units	Ultra Low Sulphur Petrol (gasoline)	
		Min	Max
<b>Marketing Specification</b>			
Research Octane Number (RON)	-	95	-
Motor Octane Rating (MON)	-	85	-
Total Lead	mg/l	-	5
Total Sulphur	mg/kg	-	10
Copper Corrosion (3hrs @ 50 C)	-	-	1
Density at 15 C	kg/m <sup>3</sup>	720	775
Benzene	% v/v	-	1
Aromatics	% v/v	-	35
Olefins	% v/v	-	18
<b>Vapour Pressure</b>			
Summer (1 June - 31 August)	kPa	45	70
Winter (1 September - 31 May)	kPa	70	100
<b>Distillation Characteristics</b>			
Evaporated at 70 C (Summer/Other)	% v/v	20/22	48/50
Evaporated at 100 C	% v/v	46	71
Evaporated at 150 C	% v/v	75	-
Final Boiling Point	°C	-	210
Existent Gum	mg/100ml	-	5
Oxidation Stability	minutes	360	-
<b>Vapour Lock Index</b>			
16 April - 31 May and	-	-	1250
1 September - 15 October	-	-	1250
MTBE/TAME	% v/v		10
ETBE	% v/v		15 (max oxygen content 2.7%)

### Useful Information

Summer and Winter Specifications are a requirement of the Motor Fuels Regulations 1999.

The Summer and Winter dates specified above apply to petrol being available at petrol stations.

For Petrol from Refineries, the dates are : Summer (16 April - 31 August); Winter (1 September - 15 April).

Appearance should be clear and bright at ambient temperatures, free from undissolved water, sediment and suspended matter

Typical Gross Calorific Value of 34.6 MJ/l and Net Calorific Value is 32.5 MJ/l