

August 2020

TECHNICAL DATA SHEET

PETROL

Product Description:

Ultra Low Sulphur Petrol (ULSP).

Applicable standards:

BS EN 228:2012 + A1:2017 (Table 2 – for E5) DfT exemption

Use:

In petrol engine vehicles designed to run on unleaded petrol, including those equipped with devices to reduce exhaust gas pollutants.

Sales specification	Units	Limits	
		Min	Max
Research Octane number (RON)	-	95.0	-
Motor Octane number (MON)	-	85.5	-
Lead content	mg/l	-	5.0
Density at 15°C	kg/m ³	720.0	775.0
Sulphur content	mg/kg	-	10.0
Oxidation stability	minutes	360	-
Existent gum (solvent washed)	mg/100ml	-	5
Copper strip corrosion (3 hrs at 50°C)	rating	Class 1	Class 1
Hydrocarbon type content			
Olefins	% (v/v)	-	18.0
Aromatics	% (v/v)	-	35.0
Benzene	% (v/v)	-	1.0
Oxygen content	% (m/m)	-	2.7
Oxygenates content			
Methanol	% (v/v)	-	3.0

Ethanol (incl. bioethanol)	% (v/v)	-	5.0
Iso-propyl alcohol	% (v/v)	-	10.0
Iso-butyl alcohol	% (v/v)	-	10.0
Tert-butyl alcohol	% (v/v)	-	7.0
Ethers (5 or more C atoms)	% (v/v)	-	15.0
Other oxygenates	% (v/v)	-	15.0
Vapour pressure (DVPE)			
Summer (1 June – 31 August)	kPa	45.0	70.0
Intermediate (1 Sept – 15 Oct)	kPa	45.0	100.0
Winter (16 Oct – 15 April)	kPa	70.0	100.0
Intermediate (16 April – 31 May)	kPa	45.0	100.0
Vapour Lock Index (10VP + 7E70)			
16 April – 31 May	-	-	n/a
1 September – 15 October	-	-	1250
Distillation characteristics			
Evaporates at 70°C E70			
Summer (1 June – 31 August)	% (v/v)	20.0	48.0
Intermediate (1 Sept – 15 Oct)	% (v/v)	20.0	50.0
Winter (16 Oct – 15 April)	% (v/v)	22.0	50.0
Intermediate (16 April – 31 May)	% (v/v)	20.0	50.0
Evaporated at 100°C E100			
	% (v/v)	46.0	71.0

Evaporated at 150°C E150	% (v/v)	75.0	-
Final boiling point	°C	-	210
Distillation residue	% (v/v)	-	2

Additional information:

1. Appearance should be clear and bright, free from undissolved water, sediment and suspended matter.
2. The Summer and Winter dates specified above apply to petrol at the point of supply to the consumer.
3. DfT exemption for VLI limit from 16th April – 31st May 2020.
4. Performance additives (detergents, etc.) are added as necessary at depots.
5. Health, Safety and Environmental information is p on the Material Safety Data Sheet