

Product Specification Sheet - Unleaded Petrol

1. Product Details

Product	Automotive Fuels – Unleaded Petrol
Applicable Standards:	BS EN 228:2012+A1:2017 (Table 2 for E5)
Use:	In petrol engine vehicles designed to run on unleaded petrol, including those equipped with devices to reduce exhaust gas pollutants.
Notes:	1. Visual appearance should be clear and bright and free from undissolved water 2. The Summer and Winter dates specified below apply to diesel being delivered from our fuel terminals 3. Performance additives are added as per agreement at the fuel terminal

2. Specification

Property	Unit	Limits		Test method
		Minimum	Maximum	
Research Octane Number (RON)		95.0	-	EN ISO 5164
Motor Octane Number (MON)		85.0	-	EN ISO 5163
Lead Content	mg/l	-	5.0	EN 237
Density at 15°C	kg/m ³	720	775.0	EN ISO 3675 EN ISO 12185
Sulfur Content	mg/kg	-	10.0	EN ISO 12916
Manganese content	mg/l	-	2.0	EN ISO 20846 EN ISO 20884 EN ISO 13032
Oxidation Stability	minutes	360	-	EN ISO 7536
Existent Gum Content (Solvent Washed)	mg/100 ml	-	5	EN ISO 6246
Copper strip corrosion (3h at 50°C)	Rating	Class 1		EN ISO 2160
Appearance		Clear and bright		Visual Inspection
Hydrocarbon type content - Olefins - Aromatics	% (v/v)	- -	18.0 35.0	EN 15553 EN ISO 22854
Benzene Content	% (v/v)	-	1.00	EN 238 EN 12177 EN ISO 22854
Oxygen Content	% (m/m)	-	2.7	EN 1601 EN 13132 EN ISO 22854
Oxygenates Content - Methanol - Ethanol	% (v/v)	- -	3.0 5.0	EN 1601 EN 13132 EN ISO 22854
- Iso-propyl alcohol - Iso-butyl alcohol - Tert-butyl alcohol - Ethers (5 or more C atoms) - Other oxygenates		>	Volume blending restricted to 2.7% (m/m) maximum oxygen content	
Vapour Pressure (DVPE)				
Summer (01st June – 31st August)	kPa	45.0	70.0	EN 13016-1
Intermediate (01st September – 15th October)	kPa	45.0	100.0	EN 13016-1
Winter (16th October – 15th April)	kPa	70.0	100.0	EN 13016-1
ntermedia (16th April – 31st May)	kPa	45.0	100.0	EN 13016-1

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Vapour Lock Index (10VP + 7 E70)				
16th April – 31st May	index, max		1250	
01st September – 15th October	index, max		1250	
Distillation Characteristics				
Evaporated at 70°C, E70				
Summer (01st June – 31st August)	% (v/v)	20.0	50.0	EN ISO 3405
Intermediate (01st September – 15th October)	% (v/v)	20.0	50.0	EN ISO 3405