



PRODUCT SPECIFICATION SHEET SUPER UNLEADED PETROL



1. PRODUCT DETAILS				
Product:	Automotive Fuels –Super Unleaded Petrol			
Applicable Standards:	BS EN 228:2012+A1:2017 (Table 2 for E5)			
Use:	In petrol engine vehicles designed to run-on high-octane level 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, sediment and suspended matter 2. The Summer and Winter dates specified below apply to petrol at the point of supply to the consumer 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)		97.0	-	EN ISO 5164
Motor Octane Number (MON)		86.0	-	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 13032 EN ISO 20846 EN ISO 20884
Manganese content	mg/l	-	2.0	EN 16135 EN 16136
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 (01 st June – 31 st August)	kPa	45.0	70.0	EN 13016-1
Intermediate (01 st September – 15 th October)	kPa	45.0	100.0	EN 13016-1
Winter (16 th October – 15 th April)	kPa	70.0	100.0	EN 13016-1
Intermedia (16 th April – 31 st May)	kPa	45.0	100.0	EN 13016-1



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Vapour Lock Index (10VP + 7 E70)				
16 th April – 31 st May	index, max		1250	
01 st September – 15 th October	index, max		1250	
Distillation Characteristics				
Evaporated at 70 °C, E70				
Summer (01 st June – 31 st August)	% (v/v)	20.0	48.0	EN ISO 3405
Intermediate (01 st September – 15 th October)	% (v/v)	20.0	50.0	EN ISO 3405
Winter (16 th October – 15 th April)	% (v/v)	22.0	50.0	EN ISO 3405
Intermediate (16 th April – 31 st May)	% (v/v)	20.0	50.0	EN ISO 3405
% Evaporated at 100 °C, E100	% (v/v)	46.0	71.0	EN ISO 3405
% Evaporated at 150 °C, E150	% (v/v)	75.0	-	EN ISO 3405
Final Boiling Point	°C	-	210	EN ISO 3405
Distillation Residue	% (v/v)	-	2	EN ISO 3405