

## Super Unleaded Petrol EN 78000

Property	Units	Limits		Test Method
		Min	Max	
Research Octane Number, RON		97,0	-	BS EN ISO 5164
Motor Octane Number, MON		86,0	-	ISO 2163
Lead Content	mg/l	-	5,0	BS EN 237
Density @ 15°C	kg/m <sup>3</sup>	720,0	775,0	BS EN ISO 3675 / 12185
Sulphur Content	mg/kg	-	10,0	BS EN ISO 20846 / 20847 / 20884
Oxidation Stability	Minutes	-	360	BS EN ISO 7536
Existent Gun Content	mg/100ml	-	5,0	BS EN ISO 6246
Copper Corrosion	3hr @ 50°C	Class 1		BS EN ISO 2160
Appearance		Clear and bright		Visual
<b>Hydrocarbon Type Content</b>				
Olefin Content	% v/v	-	18,0	ASTM D1319 / BS EN 14517
Aromatics Content	% v/v	-	35,0	ASTM D1319 / BS EN 14517
Benezene Content	% v/v	-	1,0	BS EN 12177 / 238 / 14571
Oxygen Content	% m/m	-	2,7	BS EN 1601 / 13132
<b>Oxygenates Content</b>				
Methanol		-	3,0	
Ethanol - including 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	-	10,0	
<b>Vapour Pressure (DVPE)</b>				
Summer (1 June – 31 August)	kPa	45,0	70,0	
Intermediate (1 September – 15 October)	kPa	45,0	100,0	
Winter (16 October – 15 April)	kPa	70,0	100,0	
Intermediate (16 April – 31 May)	kPa	45,0	100,0	
<b>Vapour Lock Index (10VP + 7E70)</b>				
16 April – 31 May			1250,0	
1 September – 15 October			1250,0	
<b>% Evaporated @ 70°C, E70</b>				
Transition (16 April – 31 May)	v/v	22,0	50,0	BS 2000-123
Summer (1 June – 31 August)	v/v	20,0	48,0	
Transition (1 September – 15 October)	v/v	22,0	50,0	
Winter (16 October – 15 April)	v/v	22,0	50,0	
% Evaporated @ 100°C, E100	v/v	46,0	71,0	BS 2000-123
% Evaporated @ 150°C, E150	v/v	75,0	-	BS 2000-123
Final Boiling Point (FBP) °C	°C	-	210	BS 2000-123
Distillation Residue	% v/v	-	2	BS 2000-123

### Notes

- The fuel covered by this standard is intended for use in petrol-engined road vehicles which require high octane unleaded petrol.
- Parameters that do not form part of the BS EN 228 are routinely tested as per confidential agreements with individual customers.