



Türkiye Petrol Rafinerileri A.Ş.

PRODUCT SPECIFICATION
UNLEADED MOTOR GASOLINE
95 RON

Dok. No : TPR.YPG.PSP.0243
Yayın Tarihi : 1.11.1989
Rev. No : 22
Rev. Tarihi : 6.10.2020
Sayfa No : 1 / 3

PROPERTY	UNIT	GUARANTEE	LIMIT	TEST METHOD
Appearance ^a		Clear and Bright		Visual
Corrosion, Copper Strip (3 h at 50°C)	Degree	1		TS 2741 EN ISO 2160
Density at 15°C	kg/m ³	720.0-775.0		TS 1013 EN ISO 3675 TS EN ISO 12185
Distillation	% (V/V)			TS EN ISO 3405
Evaporated at 70°C				
Summer grade ^b		20.0-48.0		
Winter grade ^c		22.0-50.0		
Evaporated at 100°C				
Summer grade ^b		46.0-71.0		
Winter grade ^c		46.0-71.0		
Evaporated at 150°C		75.0	Min	
End Point	°C	210	Max	
Residue	% (V/V)	2.0	Max	
Gum, Existent (Washed)	mg/100 ml	5.0	Max	TS EN ISO 6246
Oxidation Stability	minutes	360	Min	TS 2646 EN ISO 7536
Octane Number ^d	RON	95.0	Min	TS EN ISO 5164
Octane Number ^d	MON	85.0	Min	TS EN ISO 5163
Lead content	mg/L	5.0	Max	TS EN 237
Sulfur content	mg/kg	10.0	Max	TS EN ISO 20846 TS EN ISO 20884 TS EN ISO 13032
Manganese content	mg/L	2.0	Max	TS EN 16135 TS EN 16136

PROPERTY	UNIT	GUARANTEE	LIMIT	TEST METHOD
Vapor Pressure (DVPE)	kPa			TS EN 13016-1
Summer grade ^{b, e}		45.0-60.0		
Winter grade ^c		60.0-90.0		
VLI (Vapor Lock Index) ^f				
Transition period for Summer and Winter grade	Index	1150	Max	
Hydrocarbon content types				TS EN 15553 TS EN ISO 22854
Olefins	%(V/V)	18.0	Max	
Aromatics		35.0	Max	
Benzene content	%(V/V)	1.00	Max	TS 7088 EN 238 TS EN 12177 TS EN ISO 22854
Oxygen content	%(m/m)	2.70	Max	TS EN 1601 TS EN 13132 TS EN ISO 22854
Oxygenates content	%(V/V)			TS EN 1601 TS EN 13132 TS EN ISO 22854
Methanol		3.00	Max	
Ethanol		5.00	Max	
Iso-propyl alcohol Iso-butyl alcohol Tert-butyl alcohol Ethers Other oxygenates				Blending amount of the oxygen content is limited to be 2.70 wt%

^a Appearance shall be determined at ambient temperature.

^b 1 April-31 October (\pm 4 weeks)

^c 1 November-31 March (\pm 4 weeks)

^d A correction factor of 0.2 for MON and RON shall be subtracted for the calculation of the final result in accordance with EN 228.

^e Only valid for ethanol added Unleaded Gasoline ,Summer Period RVP value (is increased according to the ethanol content with respect to below table.

Ethanol Content of Gasoline (%vol)	Incremental value for Vapor Pressure, kPa
0	0
1,0	3,7
2,0	6,0
3,0	7,2
4,0	7,8
5,0	8,0

Note: Linear interpolation is applied to the intermediate values.

$$f \text{ VLI} = 10 \times \text{VP} + 7 \times (\text{E70})$$