



**SPECIFICATION FOR MOTOR GASOLINE
BS IV Category
(IS 2796 - 2008 with Amendment 1 March 2010)**

Sl.No.	PARAMETER	SPECIFICATION	STD.METHOD (Alternate Methods)	Typical Analysis
i	Grade	MG 91		
ii	Colour	As decided by refiners & marketers	Visual	Orange
iii	Density at 15 °C, Kg/m ³	720-775	IS 1448, P: 16/ ISO 3675/ ASTM D 4052	751
iv	DISTILLATION:	-	IS 1448, P: 18/ ISO3405/ASTM D86	
	Recovery up to 70 °C, {E70} Percent by volume	10-45	-	25
-	Recovery up to 100°C, {E100} Percent by volume	40-70	-	55
	Recovery up to 150°C, {E150} Percent by volume	75	-	89
-	Final Boiling Point (FBP) °C, Max	210	-	180
-	Residue, Percent by volume, Max	2	-	0.5
v	Research Octane Number (RON), Min	91	IS 1448, P: 27/ ISO5164/ASTM D 2699	91.3
Vi	Motor Octane Number (MON), Min	81	IS 1448, P: 26/ ISO5163/ASTM D 2700	83.5
Vii	Existent Gum, g/m ³ , Max	40	IS 1448, P: 147/ISO6246/ASTM D 381	18
Viii	Sulphur, total , mg/kg Max	50	IS 1448, P: 34/ ASTM D 1266 / (P:83, ISO 4260, D2784, D5453,D2622,ISO14596, D 3120,ISO 20847)	25
Ix	Lead Content (as Pb) g/l, Max	0.005	IS 1448, P: 80/IP 224/IP 352/ (ASTM D 3237)	< 0.001
x	Reid Vapour pressure {RVP} AT 38°C kPa,	60	IS 1448, P: 39 /ISO 3007/ASTM D 323/ (EN 13016,ASTM D 5191)	47
xi	Vapour Lock Index {VLI}, (VLI=10*RVP + 7*E7O), Max	-	-	
-	a) Summer	750	-	620
-	b) Winter	950	-	650



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Xii	Benzene percent by Volume, Max	1.0	ASTM D 3606 /(ASTM D 5580, D 6277, D 6730)	0.50
xiii	Copper strip corrosion (for 3 hrs at 50 °C) Max	Not more than 1	IS 1448, P: 15 / ISO 2160/ ASTM D 130	Class 1
xiv	Water tolerance of Gasoline- Alcohol, blends temp. For Phase separation, °C., Max	-	Annex B	NA
-	a) Summer	10	-	-
-	b) Winter	Zero	-	-
xv	Engine intake system cleanliness	Report - MFA used	As per IS 2796	112 ppm
xvi	Olefin Content, percent by volume, Max	21	P:23/ ASTM D1319/ D 3738/(ASTM D6730)	1.3
	Oxidation Stability, Min	360	P:28 / ISO 7536	Above 360
xvii	Aromatic Content, percent by volume, Max	35	P: 23/ ASTM D 1319/ ASTM D 6730/ISO 3738/(ASTM D 5580, D 6730)	33.5
xviii	Oxygen Content, percent by mass, Max.	2.7	ISO 1601	NA*
xix	Oxygenates, percent by vol, Max		ASTM D 4815/Annex C	NA*
	a) Methanol	Nil		
	b) Ethanol	5		
	c) Iso- Propoyl alcohol	10		
	c) Iso- butyl alcohol	10		
	d) Tertiary-butyl alcohol	7		
	e) Ethers containing 5 or more 'C' atoms per molecule	15		
	g) Other Oxygenates	8		

• Contains no Oxygenates

* Please refer IS 2796: 2008 with Amendment 1 March 2010 for further details.