



MOTOR GASOLINE SPECIFICATION

TEST	ANALYSIS	UNITS	LIMITS		TEST METHOD	
			MIN	MAX	ASTM	EN
1	DENSITY @ 15 ° C	Kg/m ³	720	775	D 1298 D 4052	ISO 3675 ISO 12185
2	RESEARCH OCTANE NUMBER (SEE NOTE 1)	PREMIUM	95		D2699	ISO 5164
3	MOTOR OCTANE NUMBER	PREMIUM	85		D2700	ISO 5163
4	REID VAPOR PRESSURE (SEE NOTE 2)				(SEE NOTE 3)	
4.1	SPRING	KPA	50	62	D323	
4.2	SUMMER	KPA	45	60		
4.3	FALL	KPA	50	65		
4.4	WINTER	KPA	60	70		
5	DISTILLATION @ 760 mmHg : (SEE NOTE 2)	% V/V			D 86	ISO 3405
5.1	EVAPORATED AT 70 °C (SPRING, SUMMER,FALL)	% V/V	20	46		
5.2	EVAPORATED AT 70 °C (WINTER)	% V/V	22	46		
5.3	EVAPORATED AT 100 °C (ALL SEASONS)	% V/V	46	71		
5.4	EVAPORATED AT 150 °C (ALL SEASONS)	% V/V	75	-		
5.5	FINAL BOILING POINT (ALL SEASONS)	°C	190	215		
5.6	RESIDUE (ALL SEASONS)	% V/V	-	2		
6	HYDROCAROBN ANALYSIS :				(SEE NOTE 4)	ISO 22854
6.1	OLEFINS	% V/V		18	D6277/D5580	EN 13132
6.2	AROMATICS	% V/V		35		
6.3	BENZENE	% V/V		1		
7	OXYGEN CONTENT	% M/M		2.7		ISO 22854
8	ALCOHOL	% V/V		NIL		ISO 22854
9	SULFUR	mg/kg		50	D7039/D2622/ D5453	
10	LEAD CONTENT			NIL		
11	EXISTENT GUM (WASHED)	Mg/100ml		5	D 381	
12	COPPER CORROSION (3 HOURS AT 50 °C)	SCALE		CLASS 1	D 130	
13	INDUCTION PERIOD AT 100 °C	MINUTES	360		D 525	
14	COLOR – GREEN (ABSORBANCE AT MAXIMUM WAVE LENGTH) (SEE NOTE 5)			0.16	(SEE NOTE 6)	
15	Mn CONTENT (SEE NOTE 1)			NIL	D 3831	
16	Fe CONTENT (SEE NOTE 1)			NIL	D 5863	

Note 1: The Octane Enhancer Agents Containing: Metals (LIKE FE, MN, PB,...).Aniline and its derivatives (Like N- Methyl Aniline ,N-N- dimity Aniline,...) And Chlorine Contain Agents (like Dichloroethane , 1, 2 Dichloropropane,...) Aren't Permitted. Any other type of the octane enhancer additives needs the Oil Products Specification committed approval.

Note 2: Season definition:

- a) Spring (21th March- 4th June)
- b) Summer (5th June- 5th September)
- c) Fall (6th September- 20th November)
- d) Winter (21th November- 20th March)

Note 3: Gasoline containing oxygenated compounds must be analyzed by ASTM D4953 exclusively.

Note 4: ASTM D6839 is completely harmonized with ISO 22854. In samples containing high olefin content ASTM D6839 is preferred in comparison with ASTM D1319

Note 5: Dye quantity should be about 1 Mg/L.

(The color of dye shall be green otherwise mentioned by buyer)

Please note dye will be placed on board of vessel and will not be mixed.

Note 6: Maximum absorbance in visible region (at λ_{\max}) should not be greater than 0.16