

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 | D6839/D5986/ D1319 D6839/D5986/ D1319 D6277/D5580 | EN 1601 |
| 6.2 | AROMATICS | | % V/V | | 35 | | EN 13132 |
| 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 | ISO 20846 |
| 10 | LEAD CONTENT | | | | NIL | D 3237/ D 5059 | EN 237 |
| 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