# 24 7 RACE FUELS

## 109 UNLEADED - TECHNICAL DATA SHEET

**PRODUCT** 24-7 RACE FUELS – 109 UNLEADED

**DESCRIPTION**

The 109 Unleaded is a high octane fuel developed for high revving engines that need a true highly oxygenated unleaded race fuel. It is our highest octane unleaded race fuel which makes it a popular choice for racers looking for high octane in an unleaded product. Because our 109 Unleaded offers better detonation protection, it is for racing use only. However, it will not harm oxygen sensors or catalytic converters and contains valve seat recession additives for extra protection. Due to its high oxygen content, an increase in fuel flow is required to utilize the full potential of our 109 Unleaded compared to conventional non-oxygenated fuels. Note: exposure to sun light (ultraviolet light) can degrade the octane of this fuel and must be avoided.

**REFERENCE NO.** 201702007ULP109/03

**DATE** 22/02/2017

**BATCH NO.** 2017022701/ULP109/4

**INSTRUCTIONS**

DIRECT TO TANK

| S. NO | Parameters | Unit | Typical Results | Testing Method |
|---|---|---|---|---|
| 1 | Appearance | -- | Clear Greenish Blue Liquid | Visual |
| 2 | Colour | -- | < 3 DARK GREEN / BLUE | ASTM D1500 |
| 3 | Specific Density @ 20°C | -- | 0.824 | ASTM D1298 |
| 4 | Total Purity by GLC | % | 99.9 | GLC In-House Method |
| 5 | Flash Point | °C | 40 | ASTM D93 |
| 6 | Water Content | PPM | 0.01 | ASTM D6304 |
| 7 | RON | cST | 109 | ASTM 2699 |
| 8 | MON | -- | 102 | ASTM 2700 |
| 9 | R+M/2 | | 105 | |
| 10 | Oxygen Content | %m/m | 3.8 | ASTM D4815 |
| 11 | Nirogen | %m/m | 1 | ASTM D5453 |
| 12 | Benzene | %m/m | 6 | ASTM D5443 |
| 13 | RVP | Kpa | 6.17 | ASTM D5191 |
| 14 | Lead Content | gPb/l | 0.006 | ASTM D3348 |
| 15 | Existing Gum | Mg/100ml | 3 | ASTM D381 |
| 16 | Sulphur | %m/m | 0.06 | ASTM D5453 |
| 17 | Copper Corrosion | Rating | 1 | ASTM D130 |

| S. NO | Parameters | Unit | Typical Results | Testing Method |
|---|---|---|---|---|
| 18 | Distillation 50% | Deg C | 63 | ASTM D86 |
| 19 | Distillation 90% | Deg C | 100.7 | ASTM D86 |
| 21 | Residue | %v/v | 1.5 | ASTM D86 |

• All tests have been performed using the latest revision of the methods indicated unless specifically marked otherwise.

• This test report shall not be reproduced (except in full) without the written approval of the laboratory.

• This report is computer generated so signature and stamp not necessary.

• Air/Fuel Ratio, Turbo Pressure and Ignition Advance must be examined and re-tuned to reach optimum performance. Ignition and Injection mapping are strongly recommended. It is not recommended to mix our fuels with other additives or fuel blends / brands. To maintain the stated properties of the fuel, the fuel must be stored according to local legislation in a dark cool place. Containers / Drums must be sealed tightly.