



energy experts
 ESSO Retail Network
 Mobil lubricants

SUPER 98

| PROPERTY | UNIT | METHOD | LIMITS | |
|---|-------------------|--|----------------|------|
| | | | min. | max. |
| Appearance | | Visual | bright & clear | |
| Benzene content | % vol. | D 3606/EN 238 EN 12177/EN 14517 | | 1.00 |
| Colour | | Visual | undyed | |
| Copper Strip Corrosion, 50 °C, 3 h | rating | D 130/EN ISO 2160 | | 1 |
| Density, 15 °C | kg/m ³ | D 4052/EN ISO 12185 EN ISO 3675 | 720 | 775 |
| Distillation | | D 86/EN ISO 3405 | | |
| Final Boiling Point | °C | | | 210 |
| Evap. at 70 °C | % vol. | | | |
| April, 1 - September, 30 | | | 20.0 | 48.0 |
| October, 1 - March, 31 | | | 22.0 | 50.0 |
| Evap. at 100 °C | % vol. | | 46.0 | 71.0 |
| Evap. at 150 °C | % vol. | | 75.0 | |
| Recovery | % vol. | | 96.0 | |
| Residue | % vol. | | | 2 |
| Doctor Test or Mercaptan Sulphur | % mass | D 4952/ IP 30 D 3227/UOP 163 | negative | |
| Existing gum content (solvent washed) | mg/100 ml | D 381/EN ISO 6246 | | 5 |
| Hydrocarbon type content | % vol. | D 1319/EN 14517 | | |
| Aromatics | | | | 35.0 |
| Olefins | | | | 18.0 |
| Lead content | mg/l | D 3237/EN 237 | | 5 |
| Octane No., Motor Method ^{a)} | | EN ISO 5163 ^{a)} | 88.0 | |
| Octane No., Research Method ^{a)} | | EN ISO 5164 ^{a)} | 98.0 | |
| Odour | | | marketable | |
| Oxidation Stability | min | D 525/EN ISO 7536 | 360 | |
| Oxygen content | % mass | EN 1601/EN 13132 | | 2.7 |
| Oxygenates content | % vol. | EN 1601/EN 13132 | | |
| Methanol | | | | 3.0 |
| Ethanol | | | | 5.0 |
| iso-Propyl alcohol | | | | 10.0 |
| iso-Butyl alcohol | | | | 10.0 |
| tert-Butyl alcohol | | | | 7.0 |
| Ethers (5 or more C atoms) | | | | 15.0 |
| Other oxygenates | | | | 10.0 |
| Sulphur content | mg/kg | D 2622/EN ISO 20884 D 5453/EN ISO 20846 | | 10.0 |

| | | | | |
|---------------------------------------|-----|-------------------|------|------|
| Vapour Lock Index (VLI) ^{b)} | | b) | | |
| October | | | | 1200 |
| Vapour Pressure (DVPE at 37.8°C) | kPa | D 5191/EN 13016-1 | | |
| April, 1 - September, 30 | | | 45.0 | 60.0 |
| October, 1 - March, 15 | | | 65.0 | 95.0 |
| March, 16 - March, 31 | | | 55.0 | 95.0 |