



PRODUCT SPECIFICATION

SPECIFICATION

Product Name

GRADO NITRO 10W-40

| PRIMARY TESTS | METHOD | SPECIFICATION | | |
|--------------------------------------|-------------------------------|---------------|------------------|-------|
| | | MIN | TYP | MAX |
| Appearance | Visual | | Clear and Bright | |
| Colour | ASTM D1500 / TS 1713 ISO 2049 | 2 | 2,5 | 4 |
| Density 15°C, g/ml | ASTM D4052 / TS EN ISO 12185 | 0.850 | 0.870 | 0.890 |
| Viscosity 100 °C, mm ² /s | ASTM D445 / TS EN ISO 3104 | 14 | 15 | 16.3 |
| Viscosity 40 °C, mm ² /s | ASTM D445 / TS EN ISO 3104 | 80 | 95 | 120 |
| Viscosity Index | ASTM D2270 / TS ISO 2909 | 145 | | |
| T.B.N. mgKOH/g | ASTM D2896 / TS ISO 3771 | 7 | | |

| SECONDARY TESTS | METHOD | SPECIFICATION | | |
|---|---------------------------------|---------------|--|-------|
| Pour Point, °C | ASTM D97 / TS EN ISO 3016 | | | -27 |
| Flash Point, °C (COC) | ASTM D92 / TS EN ISO 2592 | 216 | | |
| Cold Cracking -25°C, cp | ASTM D5293 / TS 1896 | | | 7000 |
| Evaporation Loss, %m/m | TS 13489 | | | 15 |
| Predicting the Borderline Pump.Temp.°C (-30°C) | TS 4409 | | | 60000 |
| Foaming Characteristic (II Kd.) ml/ml | ASTM D892 / TS 1834 ISO 6247 | | | 50/0 |
| Sulfated Ash %m/m | ASTM D874 / TS ISO 3987 | | | 3 |
| Copper Corrossion (100°C, 3 hours) | ASTM D130 / TS 2741 EN ISO 2160 | | | 1b |
| Tapered Bearing Viscosity, 150°C,mm ² /s | TS 8416 | 3,5 | | |

PERFORMANCE LEVELS : API: SL / CF, ACEA A3/B3, Daimler MB 229.1, VW 50101 / 50500

* As the defined values are typical values, there can be some little changes according to the production. M Oil keeps all the rights to update and change the formulations of products without making any announcements. For the updated informations and technical datas about the products and product packagings, please contact with M Oil.