# PRODUCT SPECIFICATION

SPECIFICATION

**Product Name:** GRADO ULTRA FM 5W-30

| PRIMARY TESTS | METHOD | SPECIFICATION | | |
|---|---|---|---|---|
| | | MIN | TYP | MAX |
| Appearence | Visual | | Clear and Bright | |
| Colour | ASTM D1500 / TS 1713 ISO 2049 | 1.5 | 2 | 3.5 |
| Density 15 °C, g/ml | ASTM D4052 / TS EN ISO 12185 | 0.840 | 0.850 | 0.870 |
| Kinematic Viscosity 100 °C, $mm^2/s$ | ASTM D445 / TS EN ISO 3104 | 9.3 | 10.5 | 12.5 |
| Kinematic Viscosity 40 °C, $mm^2/s$ | ASTM D445 / TS EN ISO 3104 | 45 | 60 | 85 |
| Viscosity Index | ASTM D2270 / TS ISO 2909 | 160 | | |
| T.B.N. mgKOH/gr | ASTM D2896 / TS ISO 3771 | 8 | | |
| Cold Cranking (-30 °C), cp | ASTM D5293 / TS 1896 | | | 6600 |

| SECONDARY TESTS | METHOD | SPECIFICATION |
|---|---|---|
| Pour Point, °C | ASTM D97 / TS EN ISO 3016 | -36 |
| Flash Point, °C (COC) | ASTM D92 / TS EN ISO 2592 | 210 |
| Evaporation Loss, %m/m | ASTM D5800 / TS 13489 | 15 |
| Predicting the Borderline Pump. Temp. °C (-35 °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 | 2 |
| Copper Corrosion (100 °C, 3 hours) | ASTM D130 / TS 2741 EN ISO 2160 | 1b |
| Tapered Bearing Viscosity, 150 °C, $mm^2/s$ | TS 8416 | 2.9 |

**PERFORMANCE LEVELS:** API: SL/CF, ACEA A5/B5, FORD WSS-M2C 913-D & WSS-M2C 913-C, Renault RN 0700, STJLR.03.5003

| Document Code | Revision No/Date | Page No | Prepared | Checked | Approved |
|---|---|---|---|---|---|
| KG-ÜS-324 | 04/09.10.2026 | 1/1 | LAB. & QUALITY SPECIALIST | MANAGEMENT REPRESENTATIVE | FACTORY MANAGER |

* 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.