



PRODUCT SPECIFICATION

SPECIFICATION

Product Name: GRADO PREMIUM RA 5W-40

PRIMARY TESTS	METHOD	SPECIFICATION		
		MIN	TYP	MAX
Appearance	Visual	Clear and Bright		
Colour	ASTM D1500 / TS 1713 ISO 2049	2	3	4
Density 15 °C, g/ml	ASTM D4052 / TS EN ISO 12185	0.840	0.860	0.880
Kinematic Viscosity 100 °C, mm ² /s	ASTM D445 / TS EN ISO 3104	12.5	15	16
Kinematic Viscosity 40 °C, mm ² /s	ASTM D445 / TS EN ISO 3104	70	95	110
Viscosity Index	ASTM D2270 / TS ISO 2909	160		
T.B.N. mgKOH/g	ASTM D2896 / TS ISO 3771	9		
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	220		
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	3.5		

PERFORMANCE LEVELS: API: SN/CF, ACEA A3/B4, MB 229.3, RN 700/710, VW 502.00 / 505.00, B71 2296

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KG-ÜS-329	01/16.10.2023	1/1	FACTORY HSEQ & LAB. MANAGER	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 data about the products and product packagings, please contact with M Oil.