



PRODUCT SPECIFICATION

SPECIFICATION

Product Name: **INDUSTRIAL GEAR OILS 220**

PRIMARY TESTS	METHOD	SPECIFICATION		
		MIN	TYP	MAX
Appearance	Visual	Clear and Bright		
Colour	ASTM D1500 / TS 1713 ISO 2049	2.5	3	4.5
Density 15 °C, g/ml	ASTM D4052 / TS EN ISO 12185	0.890	0.900	0.910
Viscosity 40 °C, mm ² /s	ASTM D445 / TS EN ISO 3104	198	220	242
Foaming Characteristics (II. Kd) ml/ml	ASTM D892 / TS 1834 ISO 6247	100/10	100/10	100/10

SECONDARY TESTS	METHOD	SPECIFICATION		
Viscosity 100 °C, mm ² /s	ASTM D445 / TS EN ISO 3104	18.5 Typ.		
Viscosity Index	ASTM D2270 / TS ISO 2909	90		
Flash Point, °C (COC)	ASTM D92 / TS EN ISO 2592	240		
Pour Point, °C	ASTM D97 / TS EN ISO 3016			- 9
Copper Corrosion (100 °C, 3 saat)	ASTM D130 / TS 2741 EN ISO 2160			1
Determination Of Water (Prs A)	ASTM D2711 / TS 13409			
- Free Water, ml		30		
- Emulsion, ml				4
- Water In Oil, %				2
Rust Test (Process A & Process B)	ASTM D665 / TS 6830 ISO 7120	Pass		
Oxidation Stability, h	ASTM D943 / TS EN ISO 4263-1	1000		
Water Content %m/m	ASTM D6304 / TS 6147 EN ISO 12937			<0.1
Acid Number, mgKOH/g	ASTM D664 / TS 2432 EN 12634			1

PERFORMANCE LEVELS: US Steel 224, AGMA 9005-E 02, DIN 51517 PART 3

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KG-ÜS-042	12/24.09.2024	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.