



Product Data

Alpha EP range

Industrial Gear oil

Description

The Castrol Alpha™ EP range fulfils the requirements of DIN 51517-3 for CLP type gear oils and U.S. Steel 224 performance. The Castrol Alpha EP range offer good wear protection, safety against scuffing, aging resistance and a high thermal endurance. In addition, the products behave neutral towards conventional seals and bearing metals.

Application

The Castrol Alpha EP range offers good gear performance for most types of gears. The Castrol Alpha EP range is also suitable for mechanical-hydrodynamic transmissions, turbo clutches and hydraulics

Typical Characteristics

Name	Method	Units	32	68	100	150	220	320	460	680
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m³	870	880	880	880	880	890	900	902
Kinematic Viscosity @40°C/104°F	ISO 3104 / ASTM D445	mm²/s	32	68	100	150	220	320	460	680
Kinematic Viscosity @100°C/212°F	ISO 3104 / ASTM D445	mm²/s	5.4	8.8	11.0	14.5	18.8	24.4	30.5	35.0
Viscosity Index	ISO 2909 / ASTM D2270	-	>95	>95	>95	>95	>95	>95	>95	82
Pour Point	ISO 3016 / ASTM D97	°C/°F	-21/-6	-24/-11	-15/5	-15/5	-12/10	-9/16	-9/16	-12/10
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	215/419	215/419	215/419	232/450	232/450	232/450	232/450	232/450
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Copper corrosion (3 hrs @100°C/212°F)	ISO 2160 / ASTM D130	Rating	1	1	1	1	1	1	1	1
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	>=12	>=12	>= 12	>= 12	> 14	> 14	> 14	> 14

Subject to usual manufacturing tolerances.

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