



## 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	-30/-22	-24/-11	-21/-6	-18/-0.4	-15/5	-15/5	-12/10	-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	-	0	0	0	0	0	0	0	0
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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