



Technical Data Sheet

CASTROL ALPHA SP RANGE

DESCRIPTION:

Castrol Alpha SP is a range of lead-free, extreme pressure industrial gear oils. These grades are produced from high quality, high viscosity index, and low pour point base oils. Castrol Alpha SP lubricants are fortified with a selective packages containing sulphur phosphorus load carrying compounds, anti-foam, anti-oxidant and anti-corrosion inhibitors.

APPLICATION:

- Castrol Alpha SP gear lubricants are recommended for use in circulatory or oil bath enclosed industrial gearboxes operating under severe shock and heavy load conditions up to temperatures of 110°C.
- The viscosity selection of Castrol Alpha SP is based on the speed, operating temperature and load or pressure applied through the system.
- These grades are most suitable for bevel, helical or spur gears and must follow manufacturers' recommendations.
- Castrol Alpha SP 68 may also be used in Outboard Marine Corporation (OMC) gear cases on outboard motors.

BENEFITS:

- Extended equipment life and reduces operating costs.
- Higher productivity.
- Lower downtime and reduced lubricant costs.
- Excellent thermal and oxidation stability.
- Outstanding wear reduction.
- Prolonged gear-tooth life due to EP additives.
- Demulsibility for rapid separation from water reduces rust and corrosion.
- Anti-foam additive prevent lubricant loss through vents causing by foaming.
- The product has a wide range of ISO viscosities available ensuring the correct grade selection according to manufactures' recommended.
- Contains anti-wear and anti-corrosive additives, EP and anti-foam properties.
- Excellent demulsibility and oxidation stability.
- Lead free

SPECIFICATIONS AND APPROVALS:

Castrol Alpha SP gear lubricants meet and exceed the following specifications:

- BS 4231
- DIN 51517 Part 3
- US Steel 224
- SABS 053

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Castrol Alpha SP gear lubricants are approved by:

- David Brown
- BEW Gear
- Flender Paramount

TYPICAL CHARACTERISTICS:

Castrol Alpha SP	68	100	150	220	320	460	680
Product Code	37304	37317	37320	37332	37345	37358	37361
Density at 20°C (kg/l)	0.879	0.884	0.888	0.890	0.895	0.899	0.912
Viscosity Index	102	101	97	98	99	90	92
Viscosity at 40°C (mm ² /s)	68	100	150	220	320	460	680
Viscosity at 100°C (mm ² /s)	8.80	11.46	14.37	17.98	24.70	29.10	38.00
Flash Point : COC (°C)	220	238	242	244	248	260	268
Pour Point (°C)	-24	-18	-18	-18	-9	-9	-6
David Brown No.	2EP	3EP	4EP	5EP	6EP	7EP	8EP
AGMA No.	2EP	3EP	4EP	5EP	6EP	7EP	8EP
FZG Spur Gear Test							
Pass Load Stage	12+	12+	12+	12+	12+	12+	12+
Timken OK Load Kg	27	27	27	27	27	27	27

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