



Product Data

ALPHA SP RANGE

Issue Number 1
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Industrial Extreme Pressure Gear Oil

DESCRIPTION

Castrol Alpha SP gear oils are a range of high quality solvent refined mineral oils, fortified with sulphur-phosphorous compounds to impart anti-wear and extreme pressure properties.

APPLICATION

Castrol Alpha SP oils are recommended for the lubrication of industrial gearboxes with forced circulation or splash and oil bath lubrication.

FEATURES

- ◆ Excellent thermal stability and oxidation resistance
- ◆ Good water resistance and demulsification characteristics
- ◆ Rust and copper corrosion protection of metal surfaces
- ◆ Lead-free additives

BENEFITS

- ◆ Long oil life
- ◆ Long oil life
- ◆ Less maintenance
- ◆ Avoids heavy metal contamination in the work place and environment

Note

For applications where operating or ambient temperatures are higher than normal, the Castrol Alphasyn T range of synthetic gear oils is recommended.



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TYPICAL PHYSICAL CHARACTERISTICS

Castrol Alpha SP Range	Alpha SP68	Alpha SP100	Alpha SP150	Alpha SP220	Alpha SP320	Alpha SP460	Alpha SP680	Alpha SP1000
ISO Viscosity Grade	68	100	150	220	320	460	680	1000
Kinematic Viscosity								
@ 40°C, cSt	68	100	150	220	320	460	680	1000
@ 100°C, cSt	8.53	11.1	14.5	18.7	24.0	30.5	37.3	43.6
Viscosity Index	95	95	95	95	95	95	90	80
David Brown Designation	2EP	3EP	4EP	5EP	6EP	7EP	9EP	-
Relative Density @ 20°C	0.885	0.885	0.890	0.895	0.900	0.900	0.920	0.925
Pour Point, °C	-21	-21	-21	-21	-21	-6	-6	-3
Open Flash Point, °C	240	249	249	249	255	255	264	264
Demulsibility N°	240	800	210	270	330	360	600	1200
FZG Gear Test Failure Load Stage Pass	12+	12+	12+	12+	12+	12+	12+	12+
Timken OK Load, lbs	60	60	60	60	60	60	60	60
Load Carrying Capacity according to Brugger (N/mm ²)	51	51	51	51	51	51	51	51

Castrol Alpha SP gear oils are fully approved by David Brown Gear Industries Limited.

Health and Safety information sheets are available for all Castrol products from the address below:
Castrol (U.K.) Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, England, Telephone:
Orders/Enquiries (08459)645111, Technical Enquiries (01793)452111, Fax (01793)491442

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