POWERSYN EP

Synthetic Industrial Gear Oil

Technical Data Sheet

Specification and Approvals

DIN 51517 Part 3, DIN Classification is CLP; ISO 12925-1 Type CKD, David Brown, S1.53.101(E), US Steel 224 AGMA 9005 E-02, Siemens Revision 13 for Flender gear units

Description

MOGAS PowerSyn EP is an advanced synthetic heavy duty gear oil formulated using specially selected Polyalphaolefin (PAO) synthetic base fluids and sulphur/phosphorus Extreme Pressure (EP) additive technology providing outstanding lubrication performance under severe operating conditions, such as high load, very low or elevated temperatures and wide temperature variations. It provides improved energy efficiency, long service life and high resistance to micro-pitting,

Features and Benefits

- Excellent load carrying capacity under shock loading conditions and micro-pitting performance to enhanced equipment life and reduced maintenance costs.
- Excellent oxidation and thermal stability extending lubricant life to enables longer service intervals.
- High viscosity index base oil enabling for excellent low temperature fluidity and effective lubrication over a wide temperature range.
- High demulsibility for rapid water separation and excellent corrosion protection ensures trouble free operation at high temperatures and applications encountering water contamination ensures trouble free operation.

Applications

PowerSyn EP range have been formulated for use in all types of industrial enclosed gears including heavy and shock loaded gears, high speed and high relative sliding velocities at elevated operating temperatures and bearings where EP properties are required. They are suitable for use in gear boxes where micro-pitting resistance is required and for a wide range of applications in extreme environments, for example mining and quarrying, marine applications and paper production.

Typical Properties

Test Parameters	Test Method	Typical Values							
ISO Viscosity Grade		68	100	150	220	320	460	680	1000
Viscosity @ 40°C mm^2/s	ASTM D 445	68	100	150	220	320	462	685	952
Viscosity @ 100°C mm^2/s	ASTM D 445	8.7	11.4	15.0	19.4	25.0	31.0	39.5	52.5
Viscosity Index	ASTM D2270	149	149	143	146	150	158	160	160
Timken OK Load Kg	ASTM D2509	27	27	27	27	27	27	27	27
FZG, fail load stage (A16.6/90)	DIN 51354 PII	-	>12	>12	>12	>12	>12	>12	>12
Pour Point °C	ASTM D 97	-36	-42	-39	-33	-30	-27	-24	-24
Flash point (COC) °C	ASTM D 92	276	242	246	250	252	258	262	266
Density @ 15°C kg/l	ASTM D4052	0.846	0.847	0.849	0.853	0.856	0.859	0.869	0.879

The typical characteristics mentioned represent mean values

Health and Safety

This product used as per our recommendation for the intended application is not expected to produce any particular risk. A safety data sheet of it is available upon request from our sales contact office or on our website. In case of used oil disposal, please respect the Regulations to protect the environment.

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