

GEAR OIL EP

ISO VG 68, 100, 150, 220, 320, 460, 680

Product Description

High-quality industrial gear oil specially designed for general closed industrial gear systems. Formulated with extreme pressure (EP) additives that enhance lubrication performance, allowing machinery to operate efficiently under high-pressure conditions helps protect gear from heavy-duty operations, reduces wear, and extends the service life of machinery. Suitable for heavily loaded enclosed gear systems and can be used both indoors and outdoors.

Benefits

- Excellent wear protection, corrosion resistance, and high load-carrying capability.
- Passed the FZG Scuffing Load Test (A/8.3/90) at Level 12.
- Outstanding foam control and excellent resistance to dust, making it suitable for both outdoor and indoor applications.
- Provides corrosion protection, extending the service life of machinery.

Applications

- Designed for industrial gears, including spur and helical gears, requiring high load-carrying properties.
- Suitable for gear and bearing systems with both circulating and splash lubrication systems.
- Not recommended for worm gears or gears made of brass and other copper alloys.

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Typical Characteristics

Tests	Methods	Units	Results						
			68	100	150	220	320	460	680
Kinematic Viscosity at 40 °C	ASTM D445	mm ² /s	66.33	100.0	154.9	216.6	325.4	492.6	685.0
Viscosity Index	ASTM D2270		101	97	96	96	96	96	96
Density at 15 °C	ASTM D4052	g/cm ³	0.883	0.887	0.892	0.895	0.899	0.903	0.903
Flash Point (COC)	ASTM D92	°C	244	254	264	270	274	280	260
Pour Point	ASTM D5950	°C	-9	-6	-9	-6	-6	-9	-6
FZG Scuffing Load (A/8.3/90)	ASTM D5182	Stage	12	12	12	12	12	12	12
Four-Ball Weld Load	ASTM D2783	kg _f	250	250	250	250	250	250	250
Foaming	Seq. I	ASTM D892	mL/mL	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0
	Seq. II	ASTM D892	mL/mL	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0
	Seq. III	ASTM D892	mL/mL	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0	Nil/0

Performance Standards

- AGMA 9005-F16
- ISO 12925-1 CKC/CKD
- DIN 51517 Part 3 (CLP)
- DAVID BROWN S1.53.101
- JIS K 2219:2006 (class2)

Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>



Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.

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