

GEAR OIL EP

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

Product Description

High performance industrial heavy duty gear oil formulated with high quality extreme pressure additive to provide gear teeth protection in severe condition.

Benefits

- Extra wear and corrosion protection.
- Extra critical micropitting resistance.

Applications

- Recommended for industrial enclosed gears, e.g. spur and helical gear that require extreme pressure protection.
- Applicable for gears and bearings in circulating and splash-lubricated systems.
- Not recommend for worm gear units.

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Typical Characteristics

Tests	Methods	Units	Results						
			68	100	150	220	320	460	680
Kinematic Viscosity at 40 °C	ASTM D 445	mm ² /s	67.73	98.86	148.6	220.1	320.7	461.8	684.4
Kinematic Viscosity at 100 °C	ASTM D 445	mm ² /s	8.74	11.07	14.57	18.85	24.14	30.6	41.64
Viscosity Index	ASTM D 2270		101	97	96	96	96	96	96
Density at 15 °C	ASTM D 4052	g/cm ³	0.884	0.889	0.892	0.896	0.899	0.906	0.910
Flash Point (COC)	ASTM D 92	°C	218	224	226	235	239	242	266
Pour Point	ASTM D 5950	°C	-12	-12	-12	-12	-12	-12	-12
FZG Scuffing Load (A/8.3/90)	ASTM D 5182	Stage	12	12	12	12	12	12	12
Four-Ball Weld Load	ASTM D 2783	kg _f	250	250	250	250	250	250	250
Foaming	Seq. I	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0	0/0
	Seq. II	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0	0/0
	Seq. III	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0	0/0

Performance Standards

- AGMA 9005-E02 EP
- US STEEL 224
- DIN 51517 Part 3
- David Brown S1.53.101
- ISO 12925-1 CKC/CKD
- GM LS-2
- Fives Cincinnati Machine Gear

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>

PTT LUBE SOLUTIONS Professional Lubricant Service Partner



The product can cause some skin irritation and has flash point higher than 93.4°C

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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