



76 Extra Duty Gear Lube

76 Lubricants Extra Duty Gear Lube is a premium quality, heavy-duty, extreme-pressure (EP) industrial gear oil developed for use in enclosed gearboxes operating under moderate to severe service conditions. It is specially formulated to minimize deposit formation and provide excellent gearbox cleanliness.

Extra Duty Gear Lube is available in eight viscosity grades ranging from ISO 68 to ISO 1500 (AGMA 2 EP to AGMA 9 EP). It is formulated with high-quality paraffinic base oils and select additives that provide extreme-pressure and antiwear properties, excellent deposit control, protection against rust and corrosion, and resistance to foaming. It has high load-carrying capacity for protection against scuffing and wear. It has excellent oxidation resistance and thermal stability at high temperatures to minimize sludge and varnish formation, and provide long service life. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can interfere with proper lubrication.

Applications

- Enclosed industrial gear sets operating under heavy loads, high peak loads or intermittent shock loads
- Enclosed spur, bevel, helical, herringbone and planetary gear sets where the equipment manufacturer specifies an AGMA EP gear oil
- Heavily loaded plain and rolling-element bearings

Extra Duty Gear Lube meets the performance requirements of:

- AGMA Standard 9005-E02 (formerly 250.04)
- Aluminum Company of America (ALCOA)
- Cincinnati Machine Specifications P-63 (2 EP), P-76 (3 EP), P-77 (4 EP), P-74 (5EP), P-59 (6 EP), P-35 (7 EP), P-78 (8A EP)
- DIN 51517 Part 3, Lubricating Oils, Type CLP
- German Steel Industry Specification SEB 181226, Type CLP
- ISO 12925-1:1996, Type L-CKC
- U.S. Steel 224
- Most major gearbox manufacturers, including Amarillo, David Brown, Falk, Hansen and Lufkin

**Premium
Extreme-Pressure
Industrial Gear Oil**

**Customer Service
Number:
1-888-766-7676**

**Technical Hot Line:
1-800-435-7761**

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Features/Benefits

- High load-carrying capacity for protection against scuffing and wear
- Excellent oxidation resistance and thermal stability
- Excellent deposit control for gearbox cleanliness
- Protects against rust and corrosion
- Fast water separation
- Quick foam release

Due to continual product research and development, the information contained herein is subject to change without notification.

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Typical Properties								
ISO Grade	68	100	150	220	320	460	680	1500
AGMA Grade	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP	8 EP	9 EP
Density, g/cm ³ @ 15.6°C (60°F)	0.875	0.878	0.882	0.888	0.894	0.899	0.901	0.913
Density, lbs/gal @ 15.6°C (60°F)	7.29	7.31	7.34	7.39	7.44	7.49	7.50	7.60
Color, ASTM D1500	3.0	3.0	4.0	5.0	5.0	6.0	7.5	8.0
Flash Point,								
°C	235	235	243	249	254	254	260	291
°F	455	455	469	480	489	489	500	556
Pour Point,								
°C	-30	-36	-36	-27	-15	-9	-10	-3
°F	-22	-33	-33	-17	5	16	14	27
Viscosity,								
cSt @ 40°C	68.0	100	150	220	320	460	680	1,500
cSt @ 100°C	8.9	11.5	15.2	19.4	24.5	31.0	39.0	65.0
SUS @ 100°F	352	521	786	1,161	1,702	2,463	3,673	8,218
SUS @ 210°F	56.2	65.8	80.5	98.5	122	152	190	316
Viscosity Index	104	102	102	99	98	97	95	96
Acid Number, ASTM D974, mg KOH/g	0.73	0.73	0.73	0.73	0.73	0.73	0.60	0.60
Copper Corrosion, ASTM D130	1a	1a	1a	1a	1a	1a	1a	1b
Four-Ball EP, ASTM D2596,								
Weld Load, kgf	200	250	250	250	250	250	315	315
Four-Ball Wear, ASTM D4172,								
Scar Diameter, mm	0.30	0.30	0.30	0.30	0.30	0.30	0.47	0.47
FZG Gear Test, ASTM D5182,								
Failure Load Stage	>12	>12	>12	>12	>12	>12	>12	>12
Timken OK Load, ASTM D2782, lb	65	70	70	70	70	70	60	60

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

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