

GEAR OIL

Extreme Heavy Duty Gear Oil



Features

Meets or exceeds the following industry performance specifications:

- US Steel 224
- AGMA 9005-D94
- GM LS2
- Cincinnati-Milacron P-35 (460), P-59 (320), P-63 (68), P-76 (100), P-77 (150)
- Bijur
- Flender
- Hanson

Benefits

- Broad grade offering, including a multi-grade
- Non-corrosive
- Resists sludge formation
- Field proven performance
- Anti-micropitting

GEAR OIL is intended for use as heavy-duty, Extreme Pressure (EP) oil for industrial gear sets. Each grade in the series is blended from quality, high viscosity index (VI) paraffinic base oils.

GEAR OIL contains a non-lead EP, anti-rust, anti-oxidation, corrosion inhibitors and anti-foam suppressant additives. These oils are non-corrosive to yellow metal gear set components. They will resist the formation of sludge at high temperatures and can be used in normal service up to a continuous 93°C (200°F). Above this temperature, the oil should be changed more frequently or an oil cooler should be installed.

GEAR OIL in the appropriate grade is recommended for industrial and marine service in straight and spiral bevel, helical, herring-bone, spur and worm gear sets.

GEAR OIL provides extra protection from foaming due to extreme applications of certain gears such as Flender. These oils are not suitable for vehicle and heavy equipment differentials, transmissions and planetary gear drives which require extra surface-active EP protection against shock-loads and wider operating temperature ranges. In these applications, use Irving **HDH**.

GEAR OIL is formulated to protect against harmful microscopic wear caused by micropitting. This formula helps to protect gear teeth from wear at the earliest stages. The result of micropitting can lead to severe gear tooth damage.

Check with sales representative or website for the latest product approvals.

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Typical performance results

ISO GRADE	68	100	150	220	320	460	680	LP150
AGMA GRADE	2EP	3EP	4EP	5EP	6EP	7EP	8EP	4 EP
VISCOSITY (D-445) cSt @ 40°C	67.9	101.6	151.8	221.1	324.9	460	680	149.8
cSt @ 100°C	8.8	11.5	15	18.8	25	31.2	43.8	20.7
VISCOSITY INDEX (D-2270)	102	100	99	98	98	98	112	161
DENSITY @ 15°C (D-4052) Kg/l	.882	.887	.891	.895	.900	.904	.907	.887
BROOKFIELD VISC. (D-2983) cP @ -30°C					71,700			36,900
POUR POINT (D-97) (°C)	-21	-24	-21	-20	-13	-9	-15	-36
FLASH POINT (D-92) (°C)	242	244	250	242	248	288	240	228
TIMKEN LOAD (D-2782) OK LOAD (kg) (lbs) FAIL LOAD (kg) (lbs)		> 27.2 (60) ALL GRADES > 29.5 (65) > 34 (75) 36.3 (80)						
4-BALL WEAR (D-2266) SCAR DIAM. (mm)		< 0.35 (ALL GRADES)						
4-BALL EP (D-2783) LOAD WEAR INDEX (kg) WELD POINT (kg) FZG LOAD STAGE		> 45 > 220 (ALL GRADES) > 12 (ALL GRADES)						
FOAM (D-892 Seq.1)		0/0 (ALL GRADES)						
RUST PREVENTION (D-665) PROCEDURE A PROCEDURE B		PASS PASS (ALL GRADES)						

Available sizes & part numbers

	18.9 L (5.0 US Gal)	205L (54.2 US Gal)	1000L (264 US Gal)	Bulk
GEAR OIL 68	F0086640	F0012250	F0004860	B0004801
GEAR OIL 100		F0011650		B0004101
GEAR OIL 150	F0084740	F0011750		B0004201
GEAR OIL 220	F0086340	F0011950	F0004460	B0004401
GEAR OIL 320	F0086440	F0012150	F0004660	B0004601
GEAR OIL 460	F0086540	F0004750		B0004701
GEAR OIL 680	F0086740	F0004950		N/A
GEAR OIL LP150	F0091440			B0005001



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