

GEAR OIL

Extreme Heavy Duty Gear Oil



Features & 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 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.

GEAR OIL in the appropriate grade is recommended for industrial and marine service in straight and spiral bevel, helical, herringbone and spur 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**.

Typical Results

Meets or Exceeds the following performance specifications:	
AIST 224 (Former US Steel 224)	X
AGMA 9005-D94	X
GM LS2	X
Bijur	X
Fives P-76 (Former Cincinnati- Milacron)	X
Siemens MD (Former Flender; ISO 150-460)	X
DIN 51517 Part 3	X

ISO GRADE	68	100	150	220	320	460
AGMA GRADE	2EP	3EP	4EP	5EP	6EP	7EP
VISCOSITY (D445)						
cSt @ 40°C	67.9	101.6	151.8	221.1	324.9	460
cSt @ 100°C	8.8	11.5	15	18.8	25	31.2
VISCOSITY INDEX (D2270)	102	100	99	98	98	98
DENSITY @ 15°C (D4052) Kg/l	0.882	0.887	0.891	0.895	0.900	0.904
POUR POINT (D97) (°C)	-21	-24	-21	-20	-13	-9
FLASH POINT (D92) (°C)	242	244	250	242	248	288
4-BALL WEAR (D2266) SCAR DIAM. (mm)	< 0.35 (ALL GRADES)					
4-BALL EP (D2783) LOAD WEAR INDEX (kg) WELD POINT (kg) FZG LOAD STAGE	> 45 > 220 (ALL GRADES) > 12 (ALL GRADES)					
FOAM (D892 Seq.1)	0/0 (ALL GRADES)					
RUST PREVENTION (D665) A B	PASS (ALL GRADES)					



Blending & Packaging

www.irvingblend.com
1.800.574.5823

Supporting data available to demonstrate appropriate performance.
Check with your Sales Representative for latest product approvals.
Please note, these are typical performance indicators and can change without notice.
This data sheet supersedes any previous version prior to 11/29/2018.

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Sizes & Order Codes

68	100	150	220	320	460
18.9 L/5 US GAL F0086640	18.9 L/5 US GAL N/A	18.9 L/5 US GAL F0084740	18.9 L/5 US GAL F0086340	18.9 L/5 US GAL F0086440	18.9 L/5 US GAL N/A
205 L/54.2 US GAL F0012250	205L/54.2 US GAL F0011650	205 L/54.2 US GAL F0011750	205 L/54.2 US GAL F0011950	205 L/54.2 US GAL F0012150	205 L/54.2 US GAL F0004750
1000 L/ 264 US GAL F0004860	1000 L/ 264 US GAL N/A	1000 L/ 264 US GAL F0004260	1000 L/ 264 US GAL N/A	1000 L/ 264 US GAL F004660	1000 L/ 264 US GAL N/A
Bulk B0004801	Bulk N/A	Bulk B0004201	Bulk B0004401	Bulk B0004601	Bulk B0004701



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