

GEAR OIL

Extreme Heavy Duty Gear Oil



Features & Benefits

- Broad grade offering
- 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.

Specifications

Meets Requirements Of	68	100	150	220	320	460
AIST 224	✓	✓	✓	✓	✓	✓
AGMA 9005-F16 Antiscuff	✓	✓	✓	✓	✓	✓
David Brown S1.53.101 E	-	✓	✓	✓	✓	✓
ISO 12925-1:2018(E) CKC	✓	✓	✓	✓	✓	✓
ISO 12925-1:2018(E) CKD	✓	✓	✓	✓	✓	✓
JIS K 2219:2006 (Class 2)	✓	✓	✓	✓	✓	✓
JOY SK025318-0004	✓	-	-	✓	✓	-
DIN 51517 Part III (2018)	✓	✓	✓	✓	✓	✓

Typical Results

TEST METHOD	68	100	150	220	320	460
AGMA GRADE	2EP	3EP	4EP	5EP	6EP	7EP
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	69.1 9.6	102.4 12.3	152.4 15.9	227.2 20.1	322 25.1	478.3 31.8
VISCOSITY INDEX (D2270)	119	112	107	102	100	97
DENSITY @ 15°C (D4052) kg/L	0.87	0.88	0.88	0.89	0.90	0.91
POUR POINT (D97) (°C)	-34	-27	-18	-12	-9	-10
FLASH POINT (D93) (°C)	178	184	183	180	184	183
4-BALL WEAR (D4172) (mm)	< 0.37 (ALL GRADES)					
4-BALL EP (D2783) LOAD WEAR INDEX (kg) WELD POINT (kg)	>45 (ALL GRADES) > 220 (ALL GRADES)					
RUST PREVENTION (D665B)	PASS (ALL GRADES)					
COPPER CORROSION (D130)	1B (ALL GRADES)					

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.

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**.

www.irvingoil.com/lubricants
1.800.574.5823

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to 08.03.19.

www.irvingoil.com/lubricants 1.800.574.5823

GEAR OIL

Extreme Heavy Duty Gear Oil

Sizes & Order Codes

Size	68	100	150	220	320	460
18.9 L/ 5 US Gal	F0086640	-	F0084740	F0086340	F0086440	-
205 L/54.2 US Gal (Metal)	F0012250	F0011650	F0011750	F0011950	F0012150	F0004750
205 L/54.2 US Gal (Plastic)	-	F0084650	-	F0086350	F0004650	-
1000 L/ 264 US Gal	F0004860	-	F0004260	F0004460	F0004660	F0004750
BULK TOTE	-	-	F0107901	-	-	-
BULK	B0004801	B0004101	B0004201	B0004401	B0004601	B0004701



Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to 08.13.19

www.irvingoil.com/lubricants 1.800.574.5823