



SYN GEAR

Full Synthetic Gear Oil



Features & Benefits

- Top-level performance
- Non-foaming
- Long life – extended drain intervals
- Compatible with mineral gear oils
- Excellent stability

Specifications

■ Suitable for Use

Specifications	SYN GEAR 150	SYN GEAR 220
US Steel 222 & 224	■	■
AGMA 250.04 & 9005-D94	■	■
DIN 51517 Part 3	■	■
David Brown S1.53 101	■	■
Fives P-77	■	-
Fives P-74	-	■

Typical Results

Test method	SYN GEAR 150	SYN GEAR 220
ISO GRADE	150	220
AGMA GRADE	4EP	5EP
VISCOSITY (D445) cSt @ 40°C	149.1	220.8
cSt @ 100°C	20.5	28.3
VISCOSITY INDEX (D2270)	160	166
POUR POINT (°C) (D97)	-36	-33
DENSITY @ 15°C (kg/L) (D4052)	0.86	0.86
FLASH POINT (°C) (D93)	195	197
TIMKEN LOAD (D2782) (kg)	36.2	36.2
FZG LOAD STAGE	12	12
4-BALL EP LOAD WEAR INDEX (kg) (D2783)	51	51

Sizes & Order Codes

Size	SYN GEAR 150	SYN GEAR 220
18.9L / 5 US gal Pail	F0085740	F0085840
205L / 54.2 US gal Metal	F0071950	F0019650

SYN GEAR oils are formulated with high-quality PAO base oils and premium additives, offering outstanding EP protection and load-carrying capacity to help protect gear surfaces operating where heavy loads and extreme pressures are present.

SYN GEAR oils offer a wider operating temperature range than the equivalent grades of mineral-based gear oils, as synthetic oils have a degree of natural 'multi-grading'. This can be important in applications where low-temperature startup may be necessary or where ambient temperature variation exists.

SYN GEAR oils are non-corrosive to the gearbox and bearing materials and will prevent iron-containing metals from rusting. This oil separates readily from water. The water will settle to the bottom of the gearbox, where it can be drained off. Oil and water mixture can reduce the lubricating abilities, acting as a promoter of oxidation and other degenerative processes.

SYN GEAR is not recommended where constant operating temperatures exceed 100°C. These oils are recommended for all gear sets except automotive differentials in the appropriate grades. For this application, we recommend **SYN HDH**.

SYN GEAR oils should not be used in worm gear applications.

www.irvingoil.com/lubricants
1.800.574.5823

Always consult your owner's manual for verification of fluid type and grade!

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 3-30-2022

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