

# SYN GEAR

## Full Synthetic Gear Oil



### Features & Benefits

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

**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 there is a wide variation in ambient temperatures.

**SYN GEAR** oils have highly effective EP additives to prevent the welding and transfer of metal between the contact surfaces of heavily-loaded gear teeth. This reduces the possibility of damage to the gear surfaces even when shock loading is present.

**SYN GEAR** oils are non-corrosive to gearbox and bearing materials and will prevent the rusting of iron containing metals. 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, act as a promoter of oxidation and other degenerative processes.

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

### Specifications

Meets Requirements of the Following:	150 & 220
US Steel 222 & 224	X
AGMA 250.04 & 9005-D94	X
DIN 51517 Part 3	X
David Brown S1.53 101	X
Fives P-35, P-59, P-63, P-74, P-76, P-77, P-78	X

### Sizes & Order Codes

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

### Typical Results

ISO GRADE	150	220
<b>AGMA GRADE</b>	4EP	5EP
<b>VISCOSITY (D445)</b> cSt @ 40°C cSt @ 100°C	151 20.3	217 27.6
<b>VISCOSITY INDEX (D2270)</b>	156	164
<b>POUR POINT (°C) (D97)</b>	-36	-33
<b>DENSITY @ 15°C (D4052) kg/L</b>	0.8691	0.8694
<b>FLASH POINT (°C) (D92)</b>	274	260
<b>TIMKEN LOAD (D2782) (kg)</b>	36.2	36.2
<b>FZG LOAD STAGE</b>	12	12
<b>4-BALL EP (D2783) LOAD WEAR INDEX (kg)</b>	51	51



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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 5/28/2018.