



# SPX SYNTHETIC GEAR OIL EP

PREMIUM SYNTHETIC EXTREME-PRESSURE INDUSTRIAL GEAR OIL

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SPX Synthetic Gear Oil EP is a premium quality, full synthetic, extreme-pressure (EP) industrial gear oil developed for the lubrication of heavily loaded enclosed industrial gear drives and heavily loaded plain or rolling element bearings operating under severe service or at extreme temperatures. SPX Synthetic Gear Oil EP is suitable for use over a wider temperature range than conventional mineral based gear oils. It is recommended for use in all applications where the equipment manufacturer specifies a synthetic AGMA EP gear oil.

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## Features & Benefits

- High load-carrying capacity for protection against scuffing and wear
- Outstanding oxidation resistance and thermal stability at high temperatures
- Outstanding low temperature properties
- High viscosity index and low pour point for use over wide temperatures
- Suitable for year round use
- Protects against rust and corrosion
- Fast water separation
- Quick foam release
- Extended service intervals compared to mineral based gear oils

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## Applications

- Enclosed industrial gear drives operating at very low or very high temperatures, or operating continuously at higher than normal operating temperatures
- Heavily loaded plain and rolling-element bearings operating at extreme temperatures
- Heavily loaded enclosed gear drives and other applications where the equipment manufacturer recommends a high VI, synthetic, extreme-pressure gear oil

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## Specifications

SPX Synthetic Gear Oil EP meets the requirements of the following industry specifications:

- ANSI/AGMA Standard 9005-E02, Anti-Scuff/Anti-Wear (EP) Oils
  - DIN 51517 Part 3, Lubricating Oils, Type CLP HC
  - Fives Cincinnati P-77 (ISO VG 150), P-74 (ISO VG 220), P-59 (ISO VG 320), P-35 (ISO VG 460)
  - German Steel Industry SEB 181226, Type CLP HC
  - ISO 12925-1, Type I-CKC
  - U.S. Steel 224
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## TYPICAL PROPERTIES

ISO Grade	150	220	320
AGMA Grade	4 EP	5 EP	6 EP
Specific Gravity @ 60°F	0.861	0.865	0.866
Density, lbs/gal @ 60°F	7.17	7.20	7.21
Color, ASTM D1500	1.0	1.0	1.0
Flash Point (COC), °C (°F)	249(480)	249(480)	249(480)
Pour Point, °C (°F)	-49(-56)	-49(-56)	-44(-47)
Viscosity			
cSt @ 40°C	150	220	320
cSt @ 100°C	20.9	27.5	35.3
SUS @ 100°F	769	1,134	1,160
SUS @ 210°F	105	135	170
Viscosity Index	163	161	156
Acid Number, ASTM D974, mg KOH/g	0.76	0.76	0.76
Copper Corrosion, ASTM D130	1a	1a	1a
Four Ball Wear, ASTM D4172, Scar Diameter, mm	0.45	0.45	0.45
Four Ball EP, ASTM D2783, Weld Load, kgf	315	315	315
FZG Scuffing Test, ASTM D5182, Failure Load Stage	>12	>12	>12

Minor variations in typical properties data are to be expected in normal manufacturing.

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet (SDS).