

# SPX GEAR OIL EP

## EXTREME-PRESSURE INDUSTRIAL GEAR OIL

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SPX Gear Oil EP is a high quality, heavy-duty, extreme-pressure (EP) industrial gear oil developed for the lubrication of heavily loaded enclosed industrial gear drives operating under moderate to severe service conditions. It is recommended for use in all applications where the equipment manufacturer specifies an AGMA EP gear oil.

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### Advantages

- High load-carrying capacity for protection against scuffing and wear
  - Excellent oxidation resistance and thermal stability
  - Excellent deposit control for gearbox cleanliness
  - Protects against rust and corrosion
  - Fast water separation
  - Quick foam release
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### Applications

- Enclosed industrial gear drives operating under heavy loads, high peak loads or intermittent shock loads
  - Enclosed spur, bevel helical, herringbone and planetary gear drives where the equipment manufacturer specifies and AGMA EP gear oil
  - Heavily loaded plain and rolling-element bearings
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### Specifications

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

- ANSI/AGMA Standard 9005-E02, Anti-Scuff/Anti-Wear (EP) Oils
  - Cincinnati Machine(P-59 and C Series)
  - DIN 51517-3
  - ISO 12925-1 CKC/CKD
  - U.S. Steel 224
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Industrial



Web: [www.pilotthomas.com](http://www.pilotthomas.com)

Email: [info@spx-usa.com](mailto:info@spx-usa.com)

Tel: 844.785.8326



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# SPX GEAR OIL EP

## TYPICAL PROPERTIES

ISO Grade	68	100	150	220
AGMA Grade	2 EP	3 EP	4 EP	5 EP
Specific Gravity @ 60°F	0.876	0.880	0.884	0.888
Density, lbs/gal @ 60°F	7.29	7.33	7.36	7.40
Color, ASTM D1500	3.0	3.5	4.0	4.5
Flash Point (COC), °C (°F)	204(400)	221(430)	210(410)	213(415)
Pour Point, °C (°F)	-21(-5)	-21(-5)	-21(-5)	-18(0)
Viscosity				
cSt @ 40°C	66	105	153	230
cSt @ 100°C	8.4	11.5	14.8	19.3
Viscosity Index	96	96	96	95
Copper Corrosion, ASTM D130	1a	1a	1a	1a
Foam Test, ASTM D892	0/0	0/0	0/0	0/0
Four Ball Wear, ASTM D4172, Scar Diameter, mm	0.27	0.27	0.27	0.27
Four Ball EP, ASTM D2783, Weld Load, kgf	400	400	400	400
FZG Scuffing Test, ASTM D5182, Failure Load Stage	12	12	12	12
Timken OK Load, ASTM D2782, lb	70	70	70	70



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# SPX GEAR OIL EP

## TYPICAL PROPERTIES

ISO Grade	320	460	680
AGMA Grade	6 EP	7 EP	8 EP
Specific Gravity @ 60°F	0.892	0.895	0.910
Density, lbs/gal @ 60°F	7.42	7.46	7.57
Color, ASTM D1500	5.0	5.5	8.0
Flash Point (COC), °C (°F)	232(450)	238(460)	257(495)
Pour Point, °C (°F)	-15(5)	-9(15)	-9(15)
Viscosity			
cSt @ 40°C	324	452	625
cSt @ 100°C	24.2	30.1	39.0
Viscosity Index	95	95	100
Copper Corrosion, ASTM D130	1a	1a	1a
Foam Test, ASTM D892	0/0	0/0	0/0
Four Ball Wear, ASTM D4172, Scar Diameter, mm	0.27	0.27	0.27
Four Ball EP, ASTM D2783, Weld Load, kgf	400	400	400
FZG Scuffing Test, ASTM D5182, Failure Load Stage	12	12	12
Timken OK Load, ASTM D2782, lb	70	70	70

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).



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