



SPX GEAR OIL EP

PREMIUM EXTREME-PRESSURE INDUSTRIAL GEAR OIL

SPX Gear Oil EP is a premium 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.

Features & Benefits

- 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
 - DIN 51517 Part 3, Lubricating Oils, Type CLP
 - 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
 - ISO 12925-1, Type L-CKC
 - U.S. Steel 224
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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)	235(455)	235(455)	243(469)	252(486)
Pour Point, °C (°F)	-33(-27)	-33(-27)	-33(-27)	-27(-11)
Viscosity				
cSt @ 40°C	68.0	100	150	220
cSt @ 100°C	8.7	11.3	14.4	18.4
SUS @ 100°F	353	522	789	1,163
SUS @ 210°F	55.5	65.0	77.3	94.2
Viscosity Index	99	99	93	92
Acid Number, ASTM D974, mg KOH/g	0.73	0.73	0.73	0.73
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	0.30	0.30	0.30	0.30
Four Ball EP, ASTM D2783, Weld Load, kgf	---	---	250	250
FZG Scuffing Test, ASTM D5182, Failure Load Stage	12	12	>12	>12
Timken OK Load, ASTM D2782, lb	---	---	---	60



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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)	254(489)	254(489)	>300(>572)
Pour Point, °C (°F)	-18(0)	-18(0)	-12(10)
Viscosity			
cSt @ 40°C	320	460	680
cSt @ 100°C	23.7	30.5	32.2
SUS @ 100°F	1,706	2,466	3,725
SUS @ 210°F	118	150	158
Viscosity Index	94	96	70
Acid Number, ASTM D974, mg KOH/g	0.73	0.73	0.73
Copper Corrosion, ASTM D130	1a	1a	1b
Foam Test, ASTM D892	0/0	0/0	10/0
Four Ball Wear, ASTM D4172, Scar Diameter, mm	0.30	0.38	0.38
Four Ball EP, ASTM D2783, Weld Load, kgf	250	250	250
FZG Scuffing Test, ASTM D5182, Failure Load Stage	>12	>12	>12
Timken OK Load, ASTM D2782, lb	60	60	60

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).