



# SPX ERO OIL

MULTIPURPOSE RUST & OXIDATION INHIBITED ANTIWEAR CIRCULATING OIL

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SPX ERO Oil is a rust and oxidation (R&O) inhibited, antiwear circulating oil developed for use in circulation systems, centrifugal air compressors, geared turbines, lightly loaded gearboxes and other various industrial applications. This product has a low level of ashless (zinc-free) antiwear additive for mild wear protection.

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## Features & Benefits

- Good oxidation resistance to minimize sludge and varnish formation
  - Mild wear protection
  - Protects against rust and corrosion
  - Excellent water-separating properties
  - Good foam resistance
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## Applications

- Air tools and pneumatic equipment
  - Centrifugal air compressors
  - Steam turbines and hydroelectric turbines, both with direct drive and with gear drives
  - Lightly loaded enclosed industrial gearboxes where the OEM specifies a R&O type oil (typically >ISO 68)
  - Lightly loaded plain and rolling element bearings
  - Vacuum pumps, deep well water pumps and machine tools
  - General purpose machinery
  - Can be used as when a “non-detergent” oil is recommended for pumps and compressors
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## Specifications

SPX ERO Oil meets the following industry and OEM specifications:

- ABB G12106
  - AGMA (non EP)
  - Alstom Power HTGD 90 117 for geared turbines
  - ASTM D4304 Type I Turbine Oil (ISO 32, 46, 68, 100)
  - British Standard 489
  - Denison Hydraulics HF-1
  - DIN 51517 Part 1, Lubricating Oils, Type CL
  - DIN 51524 Part 1, Hydraulic Oils, Type HL
  - General Electric GEK 101941A, GEK 46506e, GEK 27070 (obsolete), GEK 28143A (obsolete)
  - Ingersoll-Rand Centak centrifugal compressors
  - Solar Turbines ES 9-224 Class II Turbine Oil
  - U.S. Military MIL-L-17672D
  - U.S. Steel 126
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# SPX ERO OIL

TYPICAL PROPERTIES					
ISO Grade	22	32	46	68	100
AGMA Grade	-	0	1	2	3
Specific Gravity @ 60°F	0.865	0.862	0.868	0.873	0.877
Density, lbs/gal @ 60°F	7.13	7.18	7.23	7.27	7.30
Color, ASTM D1500	L 0.5	L 0.5	L 0.5	L 0.5	L 0.5
Flash Point (COC), °C (°F)	210(410)	232(450)	238(460)	243(469)	268(514)
Pour Point, °C (°F)	-40(-40)	-40(-40)	-40(-40)	-34(-29)	-34(-29)
Viscosity					
cSt @ 40°C	22.0	32.5	45.0	68.0	101
cSt @ 100°C	4.3	5.4	6.7	8.8	11.3
SUS @ 100°F	115	168	232	352	527
SUS @ 210°F	40.7	44.4	48.7	55.9	65.0
Viscosity Index	101	99	101	102	98
Acid Number, ASTM D974, mg KOH/g	0.14	0.14	0.14	0.14	0.14
FZG Scuffing Test, ASTM D5182, Failure Load Stage	-	10	10	10	10
Oxidation Stability					
TOST, ASTM D943, hours	>3000	>3000	>3000	>2500	>2000
RPVOT, ASTM D2272, min	>600	>600	>500	>400	>400
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass	Pass



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TYPICAL PROPERTIES				
ISO Grade	150	220	320	460
AGMA Grade	4	5	6	7
Specific Gravity @ 60°F	0.882	0.885	0.889	0.892
Density, lbs/gal @ 60°F	7.35	7.37	7.40	7.43
Color, ASTM D1500	2.5	3.5	4.5	5.0
Flash Point (COC), °C (°F)	277(531)	285(545)	304(579)	307(585)
Pour Point, °C (°F)	-17(1)	-15(5)	-15(5)	-15(5)
Viscosity				
cSt @ 40°C	158	220	320	464
cSt @ 100°C	15.3	18.8	24.1	30.6
SUS @ 100°F	830	1,164	1,704	2,488
SUS @ 210°F	81.0	95.9	120	150
Viscosity Index	97	95	96	95
Acid Number, ASTM D974, mg KOH/g	0.14	0.14	0.14	0.14
FZG Scuffing Test, ASTM D5182, Failure Load Stage	10	10	10	10
Oxidation Stability				
TOST, ASTM D943, hours	>1,500	>1,200	>1,100	>900
RPVOT, ASTM D2272, min	>450	>425	>400	>275
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass

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).