

SPX R&O

MULTIPURPOSE RUST & OXIDATION INHIBITED ANTIWEAR CIRCULATING OIL

SPX R&O 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. SPX R&O is a suitable replacement for a "non-detergent" type pump or air compressor oil.

Advantages

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

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
- 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

Specifications

SPX R&O meets the following industry and OEM specifications:

- AGMA 9005-F16 (non EP)
- ASTM D4304 Types I & III
- British Standard 489
- DIN 51515 Parts I & II
- General Electric GEK 107395A, 32568K, 27070, 28143B, & 46506E
- ISO 8068 L-TSA & L-TGA
- Siemens TLV 9013 04 (non-EP)
- Solar Turbines ES 9-224W



Industrial



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SPX R&O

TYPICAL PROPERTIES

ISO Grade	22	32	46	68	100
SAE Grade, approximate	10W	10W	20	20	30
AGMA Grade	-	0	1	2	3
Specific Gravity @ 60°F	0.856	0.862	0.868	0.873	0.877
Density, lbs/gal @ 60°F	7.13	7.18	7.23	7.27	7.30
Flash Point (COC), °C (°F)	190(375)	204(400)	210(410)	222(430)	246(475)
Pour Point, °C (°F)	-33(-30)	-32(-25)	-20(-4)	-24(-10)	-24(-10)
Viscosity					
cSt @ 40°C	22.0	32.0	44.3	68.0	100
cSt @ 100°C	4.2	5.3	6.6	8.6	11.3
Viscosity Index	100	95	100	100	99
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass	Pass
Oxidation Stability, TOST, ASTM D943, hours	>5000	>5000	>5000	>5000	>5000



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TYPICAL PROPERTIES

ISO Grade	150	220	320	460
SAE Grade, approximate	40	50	60	-
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
Flash Point (COC), °C (°F)	258(495)	282(540)	262(505)	288(550)
Pour Point, °C (°F)	-12(-10)	-9(-15)	-9(-15)	-9(-15)
Viscosity				
cSt @ 40°C	150	220	320	460
cSt @ 100°C	14.3	18.5	24.4	28.7
Viscosity Index	95	92	100	91
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass
Oxidation Stability, TOST, ASTM D943, hours	3500	2500	2500	2500

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).

Industrial