



SYNFILM

AIR COMPRESSOR AND INDUSTRIAL OIL

BEYOND SYNTHETIC®

Synfilm, Royal Purple's bestselling industrial lubricant, is recommended for air compressors, pumps, steam turbines, bearings, gears, air tools, etc.

Synfilm is a long life, high film strength, energy efficient, synthetic lubricant that significantly increases bearing life and equipment reliability. Synfilm gains its performance advantage over competing mineral and synthetic oils through its superior blend of synthetic base oils plus Royal Purple's proprietary Synerlec additive technology. This unique additive technology is proven to make equipment run smoother, cooler, quieter, longer and more efficiently.

Synfilm typically replaces conventional, low film strength, R&O (rust and oxidation inhibited) oils that rely solely on their viscosity to protect equipment against wear.

SYNERLEC® ADDITIVE TECHNOLOGY MAKES THE DIFFERENCE!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec additive technology that gives its lubricants their amazing performance advantages. Synerlec additive technology truly is beyond synthetic.

Synerlec additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication: first, by increasing the oil film's thickness, and second, by increasing the oil film's toughness, both of which help to prevent metal-to-metal contact. It displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

PERFORMANCE ADVANTAGES

High Film Strength

Synfilm protects bearings far beyond the ability of other compressor and pump oils, carrying up to 700 percent greater loads.

Rapidly Separates from Water

Synfilm rapidly and completely separates from water, which is easily drained from the bottom of the oil reservoir.

Saves Energy

Synfilm has an extremely low coefficient of friction that is proven to save energy over conventional oils. In rotating equipment these savings frequently exceed the total cost of the oil within several months, making what was once an oil expense a profit.

Reduces Bearing Vibrations

The tough oil film of Synfilm coupled with its ability to micro-polish contacting bearing elements provides superior bearing lubrication.

Longer Oil Life

Synfilm has outstanding oxidation stability that greatly extends oil change intervals while keeping equipment clean.

Excellent Corrosion Protection

The tough oil film of Synfilm forms an ionic bond on metal surfaces, which acts as a preservative oil during shutdown and provides instant lubrication upon startup.

Synthetic Solvency

The natural solvency of Synfilm cleans up dirty equipment and keeps it clean.



Compatible with Seals

Synfilm has excellent compatibility with most seals.

Compatible with Other Oils

Synfilm can be mixed with mineral oils and most synthetic oils. (It is not compatible with silicone or glycol synthetics.)

Environmentally Responsible

Synfilm components are TSCA listed and meet EPA, RCRA and OSHA requirements. Synfilm extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.

		ISO GRADE				
Typical Properties*	Method	32	46	68	100	150
Viscosity	D-445					
cSt @ 40°C		32	46	68	100	150
cSt @ 100°C		5.8	7.6	9.9	12.6	16.1
Viscosity Index	D-2270	125	125	125	120	120
Flash Point, °F/°C	D-92	430/221	485/252	455/235	485/252	500/260
Pour Point, °F/°C	D-6892	-71/-57	-58/-50	-45/-43	-45/-43	-33/-36
Copper Corrosion Test	D-130					
3 Hrs @ 100°C		1A	1A	1A	1A	1A
24 Hrs @ 100°C		1A	1A	1A	1A	1A
Rust Test	D-665					
Fresh Water		PASS	PASS	PASS	PASS	PASS
Salt Water		PASS	PASS	PASS	PASS	PASS
Foam Test, Seq II	D-892	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Demulsibility Test	D-1401					
Mins @ 130°F		40/40/0(5)	41/38/1(5)	43/35/2(5)	---	---
Mins @ 180°F		---	---	---	40/40/0(5)	40/38/2(5)
Cincinnati Millicron "A"	D-2070	PASS	PASS	PASS	PASS	PASS
Density, lbs/gal	D-4052	7.12	7.17	7.21	7.26	7.29

**Properties are typical and may vary.*