



# SYNFILM<sup>®</sup> RECIP.

## RECIPROCATING AIR COMPRESSOR OIL

### BEYOND SYNTHETIC™

Synfilm Recip. with Synerlec is recommended for lubricating reciprocating air compressors.

Synfilm Recip. is a long life, high film strength, energy efficient synthetic lubricant that significantly increases the reliability and efficiency of reciprocating air compressors. It excels at reducing wear and keeping discharge valves free of harmful carbon deposits. Synfilm Recip. forms a better seal and reduces friction between the cylinder wall and piston rings for greater compressor efficiency. It is formulated with Royal Purple's unique, proprietary Synerlec additive technology, which is proven to make equipment run smoother, cooler, quieter, longer and more efficiently.

#### SYNERLEC<sup>®</sup> 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 Royal Purple's 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 Recip. protects bearings far beyond the ability of other compressor oils, carrying up to 700 percent greater loads.
- **Rapidly Separates from Water**  
Synfilm Recip. rapidly separates from water, which is easily drained from the bottom of the oil reservoir.
- **Saves Energy**  
Synfilm Recip. has an extremely low coefficient of friction that is proven to save energy over conventional oils. In reciprocating compressors these savings typically exceed the total cost of the oil within several months, making what was once an oil expense a profit.
- **Longer Oil Life**  
Synfilm Recip. has outstanding oxidation stability that greatly extends oil change intervals while keeping equipment clean.
- **Excellent Corrosion Protection**  
Synfilm Recip.'s tough oil film forms an ionic bond on metal surfaces, which acts as a preservative oil during shutdown and provides instant lubrication upon startup.
- **Synthetic Solvency**  
Synfilm Recip.'s natural solvency excels at preventing the formation of carbon deposits on discharge valves, a common problem in high-pressure reciprocating air compressors. It also cleans up dirty compressors and keeps them clean.
- **Compatible with Other Oils**  
Synfilm Recip. is compatible and can be mixed with other mineral oils and most synthetic oils. (Synfilm Recip. is not compatible with silicone or glycol synthetics).
- **Environmentally Responsible**  
Synfilm Recip. components are TSCA listed and meet EPA, RCRA and OSHA requirements. Synfilm Recip. extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.

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TYPICAL PROPERTIES*	ASTM METHOD	ISO GRADE		
		68	100	150
Viscosity	D-445			
cSt @ 40°C		68	100	150
cSt @ 100°C		8.6	9.5	12.5
Viscosity Index	D-2270	63	60	65
Flash Point, °F	D-92	485	485	495
Pour Point, °F	D-6892	-45	-38	-33
Copper Corrosion Test	D-130			
3 Hrs @ 100°C		1A	1A	1A
250 Hrs @ 100°C		1A	1A	1A
Rust Test	D-665			
Fresh Water		PASS	PASS	PASS
Salt Water		PASS	PASS	PASS
Foam Test, Seq II	D-892			
Initial/Final/Time <sub>(sec)</sub>		3/0/0	8/0/2	1/0/0
Demulsibility Test	D-1401			
Mins @ 130°F		10	---	---
Mins @ 180°F		---	10	10
Cincinnati Millicron "A"	D-2070			
Corrosion / Oxidation		PASS	PASS	PASS
Dry Air Oxidation	D-2893			
312 Hrs @ 100°C,				
% Viscosity Increase	0	0	0	0
Precip. No. (% Solids)	0	0	0	0
Density, lbs/g	D-4052	7.96	7.97	7.95

\*Properties are typical and may vary