



SYNFILM[®] RECIP

SYNTHETIC RECIPROCATING AIR COMPRESSOR OIL *WITH SYNERLEC[®]*

Synfilm[®] Recip Compressor Oil is an advanced synthetic lubricant engineered for long-lasting, moisture-resistant protection of reciprocating air compressors. With its exceptionally high film strength, it reduces wear between cylinder walls and piston rings, while its high-solvency base oil keeps discharge valves clean and free of harmful carbon deposits. The result is improved reliability, greater efficiency, and lower overall operating costs.

What sets Synfilm Recip apart is the combination of premium synthetic base oils and our proprietary Synerlec[®] additive technology. Proven in demanding industrial environments, Synerlec helps equipment run smoother, cooler, quieter, and more efficiently – delivering longer service life, greater reliability, and maximized uptime with reduced maintenance.



PROPRIETARY ADDITIVE TECHNOLOGY – SYNERLEC[®]

Synerlec additive technology forms a tough, slippery film that bonds ionically to metal surfaces, increasing oil film thickness beyond what viscosity alone can provide. This reinforced film greatly reduces the likelihood of breach, preventing metal-to-metal contact even under severe operating conditions where ordinary lubricants would fail. Because Synerlec allows a lubricant to

carry significantly higher loads than other mineral and synthetic oils, it delivers extra protection for bearings exposed to misalignment, shaft flex, high temperatures, imbalance, or water contamination – factors that typically thin oil films. In addition, Synerlec can smooth metal surfaces already damaged by wear by gently micro-mending surface asperities.

PERFORMANCE & OTHER ADVANTAGES

EXCEPTIONAL FILM STRENGTH – Prevents metal-to-metal contact, localized stress and wear.

VARNISH & SLUDGE PROTECTION – Resists oil breakdown at elevated discharge temperature and compression ratios. Prevents deposition formation, delivering superior valve, piston, cylinder and bearing cleanliness.

ENHANCED OPERATIONAL EFFICIENCY –

Exhibits minimal volatility and rapid air release, providing outstanding heat transfer and cooling properties.

MOISTURE RESISTANCE – Inhibits water contamination, rust and corrosion, optimizing equipment life.



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TYPICAL APPLICATIONS & INDUSTRIES

- Reciprocating compressors
- Manufacturing
- Oil and gas (midstream, petrochemical plants and refineries)

TECHNICAL DATA

ISO Grade	100	150
Color	Purple	Purple
SAE Grade J300 Engine Oil / J306 Gear Oil	30 / 80	40 / 85
Relative Density @ 60°F/60°F, ASTM D1298	0.957	0.955
Viscosity @ 100°C cSt, ASTM D445	9.5	12.7
Viscosity @ 40°C cSt, ASTM D445	100	150
Viscosity Index ASTM D2270	60	65
Flash Point °C (°F), ASTM D92	252 (485)	257 (495)
Pour Point °C (°F), ASTM D97	-39 (-38)	-39 (-38)
Rust Test 4 hrs @ 60°C, DI H ₂ O, ASTM D665A	Pass	Pass
Rust Test 4 hrs @ 60°C, Sea H ₂ O, ASTM D665B	Pass	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1A	1A
Copper Corrosion 24 hrs @ 100°C, ASTM D130	1A	1A
Foaming Characteristics 3 sequences @ 24°C, 93.5°C, 24°C: tendency/stability (ml)-time to break (sec), ASTM D892	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0

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