



CAP COMPRESSOR LUBRICANT

SYNTHETIC CYLINDER & PACKING GLAND COMPRESSOR LUBRICANT *WITH SYNERLEC®*

CAP Compressor Lubricant is a premium synthetic lubricant engineered for cylinders and packing glands in gas compressors, including reinjection and other high-pressure units. It forms a durable oil film on metal, ceramic, or glass surfaces that resists shear, water vapor, and hydrocarbon gases while providing excellent elastohydrodynamic protection against wear.

Its dense molecular structure prevents dilution under high pressure, maintaining viscosity and preventing oil carryover. Strong adhesion allows piston rings to ride on a consistent film, minimizing gas blowby and extending compressor life, while corrosion inhibitors protect against hydrogen sulfide, wet carbon dioxide, and other acids.

Because of these properties, injection feed rates can be reduced, improving downstream cleanliness and limiting equipment fouling. CAP outperforms competing mineral and synthetic oils with its advanced synthetic base oils and proprietary Synerlec® technology – proven to help compressors run smoother, cooler, quieter, and more efficiently, resulting in longer service life, greater reliability, and maximized uptime with reduced maintenance demands.



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 ADVANTAGES

PROLONGS CYLINDER & PACKING LIFE –

Provides exceptional wear protection and reduced friction.

SUPERIOR HIGH-PRESSURE GAS SERVICE

– Delivers excellent sealing and wear protection in gas reinjection equipment up to 10,000 psi.

OUTSTANDING CORROSION PROTECTION

– Reduces rust and corrosion even in acidic H₂S and CO₂ applications.

GREATLY REDUCED OIL CARRYOVER & CONSUMPTION

– Resists dilution by gasses and vapors, maintaining viscosity.



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TYPICAL APPLICATIONS & INDUSTRIES

- Reciprocating gas compressors
 - » Including those that compress inert gasses such as natural gas, hydrogen, nitrogen, carbon dioxide, methane, ethane, butane, propane and helium
- Gas reinjection compressors
- Chemical manufacturing
- Oil and gas (refineries, midstream, petrochemical plants)

TECHNICAL DATA

ISO Grade	460
Color	Amber
Relative Density @ 60°F/60°F, ASTM D1298	0.873
Viscosity @ 100°C, cSt, ASTM D445	39
Viscosity @ 40°C, cSt, ASTM D445	460
Viscosity Index ASTM D2270	130
Flash Point, °C (°F), ASTM D92	212 (414)
Pour Point, °C (°F), ASTM D97	-42 (-44)
Rust Test 4 hrs @ 60°C, DI H2O, ASTM D665A	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1b
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

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