



Premium Gas Compressor Oil

Phillips 66® Premium Gas Compressor Oil is a premium quality, part-synthetic lubricant developed for use in oil-flooded rotary screw and rotary vane gas compressors in natural gas service. It also is recommended for use as a cylinder lubricant and crankcase oil in reciprocating compressors in natural gas service. It is specially formulated to minimize the effects of gas dilution and oil absorption in this type of service.

Premium Gas Compressor Oil is formulated to provide excellent service and protection over a wide temperature range. It has excellent oxidation resistance and thermal stability at high temperatures to help minimize deposit formation, and has a high viscosity index and good low-temperature properties for year-round use. It protects against rust and corrosion, and contains a special inhibitor to resist corrosion caused by hydrogen sulfide in sour gas. The synthetic blend formulation provides enhanced oxidation resistance and lower volatility at high temperatures compared to conventional mineral oils, which can result in extended service intervals, lower oil consumption and reduced maintenance.

Applications

- Oil-flooded rotary screw and rotary vane gas compressors
- Industrial reciprocating compressors pumping natural gas
- Reciprocating compressors commonly found in remote gas gathering stations

Features/Benefits

- Excellent oxidation resistance and thermal stability at high temperatures
- High viscosity index and low pour point for use over a wide temperature range
- Formulated to minimize the effects of gas dilution and oil absorption
- Low varnish-forming tendency
- Resists hydrogen sulfide corrosion
- Protects against rust and corrosion

Premium Synthetic Blend Compressor Oil for Natural Gas Service





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Typical Properties		
ISO Grade	68	150
Specific Gravity @ 60°F	0.870	0.875
Density, lbs/gal @ 60°F	7.24	7.29
Color, ASTM D1500	0.5	0.5
Flash Point (COC), °C (°F)	243 (470)	227 (441)
Pour Point, °C (°F)	-33 (-27)	-33 (-27)
Viscosity		
cSt @ 40°C	67.0	150
cSt @ 100°C	10.0	18.6
SUS @ 100°F	344	775
SUS @ 210°F	60.1	94.8
Viscosity Index	133	140
Acid Number, ASTM D974, mg KOH/g	0.22	0.22
Copper Corrosion, ASTM D130	1a	1a
Demulsibility, ASTM D1401, minutes to pass	15	15
Foam Test, ASTM D892, Seq. I, mL	0/0	0/0
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.50	0.50
Oxidation Stability, RPVOT, ASTM D2272, minutes	1,100	1,100
Rust Test, ASTM D665 A&B	Pass	Pass

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.