

# **Premium Gas Compressor Oil**

Phillips 66® Premium Gas Compressor Oil is a premium quality, part-synthetic lubricant developed for oil-flooded rotary screw and rotary vane compressors in natural gas and CO<sub>2</sub> service. It is also recommended for use as a cylinder and crankcase lubricant for reciprocating compressors in natural gas and CO<sub>2</sub> service. Premium Gas Compressor Oil is specially formulated to minimize the effects of gas dilution and oil absorption in these applications.

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 minimize deposit formation, while a high viscosity index and good low-temperature properties allow for year-round use. It protects against rust and corrosion, and is specifically formulated 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 or CO,
- 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 and CO<sub>2</sub> Service





## **Premium Gas Compressor Oil**

Typical Properties				
ISO Grade		150	320	
Specific Gravity @ 60°F		0.888	0.896	
Density, lbs/gal @ 60°F		7.39	7.46	
Color	ASTM D1500	0.5	1.0	
Flash Point (COC), °C (°F)	ASTM D92	244 (471)	244 (471)	
Pour Point, °C (°F)	ASTM D97	-40 (-40)	-40 (-40)	
Viscosity	ASTM D445			
cSt @ 40°C		150	310	
cSt @ 100°C		18.6	35.7	
Viscosity Index	ASTM D2270	140	162	
Acid Number, mg KOH/g	ASTM D974	0.17	0.17	
Copper Corrosion	ASTM D130	1a	1a	
Demulsibility, minutes to pass	ASTM D1401	15	25	
Foam Test, Seq. I, mL	ASTM D892	0/0	0/0	
Four-Ball Wear, Scar Diameter, mm	ASTM D4172	0.50	0.50	
Oxidation Stability, RPVOT, minutes	ASTM D2272	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 <a href="http://www.phillips66.com/SDS">http://www.phillips66.com/SDS</a>.