



Gas Compressor Oil

Phillips 66® Gas Compressor Oil is a high-quality lubricant developed for the lubrication of oil-flooded rotary compressors in natural gas service and for cylinder lubrication in reciprocating compressors in natural gas service. It is formulated to minimize the effects of gas dilution and oil absorption in this type of service.

Gas Compressor Oil is specially formulated to provide excellent service and protection in gas compression service. It has excellent oxidation resistance and thermal stability at high temperatures to help minimize deposit formation and provide long service life. It protects against rust, corrosion and wear, and is resistant to excessive foam buildup that can interfere with proper lubrication.

Applications

- Oil-flooded rotary screw, rotary lobe, and rotary vane compressors in natural gas service
- 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
- Formulated to minimize the effects of gas dilution and oil absorption
- Good wear protection
- Protects against rust and corrosion
- Good foam resistance

Compressor Oil for Natural Gas Service





Gas Compressor Oil

Typical Properties			
ISO Grade	100	150	220
Specific Gravity @ 60°F	0.874	0.879	0.885
Density, lbs/gal @ 60°F	7.28	7.32	7.37
Color, ASTM D1500	1.5	2.5	2.5
Flash Point (COC), °C (°F)	268 (514)	277 (531)	285 (545)
Pour Point, °C (°F)	-29 (-20)	-18 (0)	-15 (5)
Viscosity			
cSt @ 40°C	97.6	150	220
cSt @ 100°C	11.3	14.9	18.8
SUS @ 100°F	508	787	1,164
SUS @ 210°F	65.0	79.3	95.9
Viscosity Index	102	99	95
Acid Number, ASTM D974, mg KOH/g	0.14	0.14	0.14
Copper Corrosion, ASTM D130	1a	1a	1a
Demulsibility, ASTM D1401, minutes to pass	5	10	10
Foam Test, ASTM D892, Seq. I, mL	0/0	0/0	0/0
Rust Test, ASTM D665 A&B	Pass	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>.