



Special Compressor Oil

Phillips 66® Special Compressor Oil is a high-quality, detergent compressor oil specifically developed for the lubrication of centrifugal and rotary gas compressors handling sour gas or process gas. It has a high alkaline reserve to neutralize the acids formed during compression of sour gas or process gas, and holds moisture in suspension until oil drain.

Special 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 is formulated to neutralize acids formed during sour gas or process gas compression. It protects against rust and corrosion, and is resistant to excessive foam buildup that can interfere with proper lubrication. The detergent additive helps hold moisture in suspension until oil drain.

Applications

- Centrifugal and rotary gas compressors handling sour gas or process gas
- Process gas compressors
- Vacuum pumps

Features/Benefits

- Excellent oxidation resistance and thermal stability at high temperatures
- High alkaline reserve to neutralize acids formed during gas compression
- Holds moisture in suspension
- Protects against rust and corrosion
- Good foam resistance
- Low carbon-forming tendency

Detergent Compressor Oil for Sour Gas for Process Gas Service





Special Compressor Oil

Typical Properties	
ISO Grade	68
Specific Gravity @ 60°F	0.875
Density, lbs/gal @ 60°F	7.29
Color, ASTM D1500	6.5
Flash Point (COC), °C (°F)	238 (460)
Pour Point, °C (°F)	-15 (5)
Viscosity	
cSt @ 40°C	66.3
cSt @ 100°C	8.9
SUS @ 100°F	343
SUS @ 210°F	56.2
Viscosity Index	108
Acid Number, ASTM D974, mg KOH/g	1.30
Foam Test, ASTM D892, Seq. I, mL	0/0
Oxidation Stability, RPVOT, ASTM D2272, minutes	247
Rust Test, ASTM D665 A&B	Pass
Sulfated Ash, ASTM D874, wt %	1.27
Total Base Number (TBN), ASTM D2896, mg KOH/g	9.9
Calcium, wt %	0.32
Zinc, wt %	<0.001

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>.