



Wet Gas Compressor Oil

Phillips 66® Wet Gas Compressor Oil is a high-quality lubricant developed for the lubrication of oil-flooded rotary compressors in natural gas service. It also is recommended for cylinder lubrication of reciprocating compressors in natural gas service. It is specially formulated to minimize the effects of gas dilution and oil absorption and to resist wash-off in compressors handling “wet” gas (natural gas containing liquid hydrocarbons and/or water).

Wet 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 is compounded with an oiliness additive that provides good metal-wetting ability to help resist lubricant wash-off in the presence of wet gas. It protects against rust, corrosion and wear, and is resistant to excessive foaming that can interfere with proper lubrication.

Wet Gas Compressor Oil is particularly recommended for use in applications where the gas outlet temperature is well above the condensation point of the gas.

Applications

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

Features/Benefits

- Excellent oxidation resistance and thermal stability
- Resists lubricant “wash-off”
- Formulated to minimize the effects of gas dilution and oil absorption
- Good wear protection
- Protects against rust and corrosion
- Good foam resistance

Compounded Compressor Oil for “Wet” Natural Gas Service





Wet Gas Compressor Oil

Typical Properties	
ISO Grade	220
Specific Gravity @ 60°F	0.889
Density, lbs/gal @ 60°F	7.40
Color, ASTM D1500	2.5
Flash Point (COC), °C (°F)	285 (545)
Pour Point, °C (°F)	-15 (5)
Viscosity	
cSt @ 40°C	218
cSt @ 100°C	18.5
SUS @ 100°F	1,154
SUS @ 210°F	94.6
Viscosity Index	94
Acid Number, ASTM D974, mg KOH/g	0.14
Copper Corrosion, ASTM D130	1a
Demulsibility, ASTM D1401, minutes to pass	15
Foam Test, ASTM D892, Seq. I, mL	0/0
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.40
Oxidation Stability, ASTM D943-04a, hours	4,000
Rust Test, ASTM D665 A&B	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>.