



Syndustrial® PAG Compressor Oil

Syndustrial PAG Compressor Oil is a premium quality, synthetic lubricant developed for use in centrifugal and oil-flooded rotary screw and rotary vane compressors processing natural gas, carbon dioxide, propane or other hydrocarbon gases. It is specially formulated to resist hydrocarbon dilution and oil absorption in this type of service.

Syndustrial PAG Compressor Oil is formulated with synthetic polyalkylene glycol (PAG) base oils and carefully selected additives to provide long service life, excellent wear protection, resistance to washout and lubricant carryover, and protection against rust and corrosion. Special inhibitors help resist corrosion caused by hydrogen sulfide when processing sour gas. The combination of outstanding oxidation resistance and thermal stability at high temperatures, a very high viscosity index, and excellent low-temperature properties makes it suitable for year-round use over a wide temperature range.

Syndustrial PAG Compressor Oil is highly resistant to hydrocarbon gas dilution and absorption into the gas stream. Solubility of gas in the oil causes reduced lubricant viscosity, which can result in cylinder scoring and high wear rates. Absorption of the oil into the gas stream causes high oil consumption and carryover into the process gas, and can cause depletion of the protective oil film on the cylinder walls. Resistance to gas dilution and oil absorption helps maintain proper viscosity and oil film thickness to protect against wear.

Applications

- Oil-flooded rotary screw and rotary vane compressors processing natural gas, carbon dioxide or other hydrocarbon gases
- Centrifugal compressors processing propane refrigerant, including York centrifugal compressors where York Oil Q (ISO VG 46) or York Oil R (ISO VG 68) is recommended

Note: Syndustrial PAG Compressor Oil is **not** compatible with petroleum compressor oils. Care should be taken to avoid mixing the two products. When switching over from mineral oil to Syndustrial PAG Compressor Oil, a complete flush, drain and refill should be performed.

Features/Benefits

- Highly resistant to dilution by hydrocarbon gases
- Resists washout by condensed hydrocarbon liquids

**Synthetic
Polyalkylene Glycol
Lubricant For
Gas Compressors**

Contact Information

**U.S. Customer
Service:
1-800-822-6457**

**Technical Hot Line:
1-800-766-0050**

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Customer Service:
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conoco



- Resists absorption into the gas stream and subsequent carryover of the lubricant downstream
- Outstanding oxidation resistance and thermal stability at high temperatures
- High viscosity index and low pour point for use over a wide temperature range
- High film strength for wear protection
- Protects against rust and corrosion
- Extended service intervals compared to conventional mineral oil-based lubricants
- Compatible with commonly used seals, gaskets and hoses⁽¹⁾

⁽¹⁾**Note:** *Syndustrial PAG Compressor Oil is compatible with neoprene, silicone rubber, torton, vespal and viton, as well as epoxy paints. It is **not** compatible with oil-based paints or solvents, such as diesel fuel, kerosene, heptane, methanol, ethylene glycol or triethanolamine.*

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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Typical Properties

ISO Grade	46	68	100	220
Specific Gravity @ 60°F	1.03	1.04	1.04	1.05
Density, lbs/gal @ 60°F	8.58	8.66	8.66	8.74
Color, ASTM D1500	0.5	0.5	0.5	0.5
Flash Point (COC), °C (°F)	263 (505)	232 (450)	232 (450)	266 (511)
Pour Point, °C (°F)	-51 (-60)	-39 (-38)	-36 (-33)	-33 (-27)
Viscosity,				
cSt @ 40°C	46.9	68.0	100	237
cSt @ 100°C	9.9	14.8	19.4	42.9
SUS @ 100°F	236	340	503	1,193
SUS @ 210°F	59.6	78.4	97.8	206
Viscosity Index	204	230	218	238
Acid Number, ASTM D974, mg KOH/g	0.26	0.34	0.34	0.34
Copper Corrosion, ASTM D130	1a	1a	1a	1a
Foam Test, ASTM D892	Pass	Pass	Pass	Pass
Four-Ball Wear, ASTM D4172,				
Scar Diameter, mm	0.50	0.47	0.51	0.53
Oxidation Stability,				
RPVOT, ASTM D2272, minutes	1,550	2,100	2,100	1,500
Rust Test, ASTM D665 A	Pass	Pass	Pass	Pass

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

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