



Premium Rotary Air Compressor Oil

Phillips 66® Premium Rotary Air Compressor Oil is a premium quality, part-synthetic lubricant developed for use in rotary air compressors operating under moderate to severe service conditions. The part-synthetic formulation provides enhanced thermal and oxidative stability at high temperatures to minimize the formation of sludge and varnish.

Premium Rotary Air Compressor Oil is formulated with a blend of synthetic and premium hydrocracked paraffinic base oils, plus select additives. It has excellent oxidation resistance and thermal stability at high temperatures, plus natural detergency, to minimize deposit formation and provide long service life. It has low volatility to help reduce oil consumption, good low-temperature properties, and protects against rust and corrosion. It also has good water-separating properties and is resistant to foam buildup.

Premium Rotary Air Compressor Oil is **not** recommended for use in reciprocating air compressors or in natural gas compression service.

Applications

- Oil-flooded rotary screw, rotary lobe, and rotary vane air compressors
- Circulating systems requiring a part-synthetic lubricant
- Industrial equipment operating over a wide temperature range where an inhibited mineral oil is recommended
- Industrial equipment where operating conditions are too severe for conventional mineral oil based R&O-inhibited circulating oils

Premium Rotary Air Compressor Oil meets the requirements of the following industry specifications:

- DIN 51506, Air Compressor Lubricant Standard, Grade VDL
- DIN 51517 Part 2, Lubricating Oils, Type CL
- DIN 51517 Part 3, Lubricating Oils, Type CLP

Features/Benefits

- Part-synthetic formulation for enhanced performance benefits
- Excellent resistance to thermal breakdown at high temperatures
- Excellent oxidation resistance to minimize sludge and varnish formation
- Good wear protection

**Premium
Synthetic Blend
Lubricant for
Rotary Air
Compressors**

**KEEPING THE
WORLD
RUNNING
SMOOTHLY.**





- Natural detergency
- Protects against rust and corrosion
- Good low-temperature properties
- Good water-separating properties
- Good foam resistance
- Low carbon-forming tendency

Premium Rotary Air Compressor Oil

| Typical Properties | |
|---|-----------|
| ISO Grade | 46 |
| Specific Gravity @ 60°F | 0.875 |
| Density, lbs/gal @ 60°F | 7.29 |
| Color, ASTM D1500 | 0.5 |
| Flash Point (COC), °C (°F) | 238 (460) |
| Pour Point, °C (°F) | -36 (-33) |
| Viscosity | |
| cSt @ 40°C | 46.0 |
| cSt @ 100°C | 6.7 |
| SUS @ 100°F | 238 |
| SUS @ 210°F | 48.7 |
| Viscosity Index | 97 |
| Acid Number, ASTM D974, mg KOH/g | 0.17 |
| Demulsibility, ASTM D1401, minutes to pass | 15 |
| Foam Test, ASTM D892, Seq. I, mL | 15/0 |
| Oxidation Stability, RPVOT, ASTM D2272, minutes | 2,100 |
| 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>.