

ConocoPhillips Syncon® 220 Synthetic R&O Oil

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

Syncon R&O Oil is a premium quality, synthetic, rust and oxidation (R&O)-inhibited circulating oil developed for use in circulating systems, rotary air compressors, lightly loaded enclosed gear drives and other industrial equipment operating under severe-service conditions or at extreme temperatures. It is particularly recommended for use in applications where operating conditions may be unfavorable or too severe for conventional mineral oil-based circulating oils. Syncon R&O Oil is formulated with synthetic polyalphaolefin(PAO) base oils and select additives to provide excellent protection against rust, corrosion and deposit formation. It has outstanding oxidation resistance and thermal stability at high temperatures to minimize sludge and varnish formation, and provide long service life. It protects system components against rust, corrosion and wear. It has excellent low-temperature properties for use over a wide temperature range, and is resistant to excessive foam buildup that can interfere with proper lubrication. Syncon R&O Oil is compatible with mineral oil-based lubricants, but mixing should be avoided for optimum performance benefits.

Applications: Rotary air compressors where the manufacturer specifies a PAO-based lubricant Plain and rolling-element bearings operating at very high or very low temperatures Lightly to moderately loaded enclosed industrial gear drives that do not require a compounded or extreme-pressure (EP) gear lubricant Circulating systems of paper machine dryer sections and calender stacks Electric motor bearings Industrial worm gear drives with bronze-on-steel gears Lubrication of the upper cylinders of gas compressors handling natural gas or process gas (ISO VG 150 or 220, typically) Vacuum pumps Industrial equipment operating over a wide temperature range where an inhibited mineral oil is recommended

Features/Benefits: Outstanding resistance to thermal breakdown at high temperatures Outstanding oxidation resistance to minimize sludge and varnish formation Protects against wear Protects against rust and corrosion Good water-separating properties Good foam resistance Excellent low-temperature fluidity Low carbon-forming tendency for use in rotary air compressors Extended service intervals compared with conventional mineral oil-based lubricants Compatible with mineral oil-based lubricants

Information provided by ConocoPhillips

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-Syncon-220-Synthetic-RO-Oil.php

| Physical Properties | Metric | English | Comments |
|--------------------------------------|------------|---------------------------|-------------------|
| Specific Gravity | 0.875 g/cc | 0.875 g/cc | |
| Density | 0.874 g/cc | 0.0316 lb/in ³ | |
| Viscosity Measurement | 127 | 127 | Viscosity Index |
| Saybolt Viscosity at 100°F | 1150 SUS | 1150 SUS | |
| Saybolt Viscosity at 210°F | 114 SUS | 114 SUS | |
| Kinematic Viscosity at 40°C (104°F) | 220 cSt | 220 cSt | |
| Kinematic Viscosity at 100°C (212°F) | 22.8 cSt | 22.8 cSt | |
| Oxidative Stability | 14.17 hour | 14.17 hour | RPVOT; ASTM D2272 |
| ASTM Color | 1.0 | 1.0 | L; ASTM D1500 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|-----------|---------------------------|
| Four Ball Wear | 0.400 mm | 0.0157 in | Scar Diameter; ASTM D4172 |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------|----------|----------|
| Pour Point | -38.3 °C | -37.0 °F | |
| Flash Point | 246 °C | 475 °F | COC |

| Chemical Properties | Metric | English | Comments |
|---------------------|--------|---------|-----------------------|
| Total Acid Number | 0.20 | 0.20 | [mg KOH/g]; ASTM D974 |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------------|------------|
| ASTM Rust A&B | Pass | |
| Copper Corrosion | 1B | ASTM D130 |
| FZG Scuffing Test | 10 Failure Load Stage | ASTM D5182 |

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