



## Syncon<sup>®</sup> Barrier Oil

Syncon Barrier Oil is a premium quality, non-reactive, synthetic light process oil developed for use as a barrier oil in seal applications where the manufacturer calls for a light mineral seal oil. Typical applications include seal service in refineries, gas plants, steel mills, power plants and chemical plants.

Syncon Barrier Oil is available in one viscosity grade: ISO 5. It is manufactured with synthetic polyalphaolefin (PAO) base oils and select additives to provide excellent oxidation inhibition and lubricity over a wide temperature range. It is free of impurities that can cause catalyst poisoning in process applications, and is compatible with most commonly used seal materials.<sup>(1)</sup> It complies with FDA 21 CFR 178.3570 regulations for use in food processing plants where there is the possibility of incidental food contact.

### **Applications**

- Seal applications in gas processing and pumping
- Barrier fluid in dual mechanical seals used in refineries, power plants and chemical plants, where the manufacturer calls for a premium quality light mineral seal oil

### **Features/Benefits**

- Premium quality seal oil
- Outstanding oxidation resistance and thermal stability at high temperatures
- Superior heat transfer properties
- Excellent low-temperature fluidity
- Resistant to chemical contamination
- Helps keep the face of the seal cool and free of deposits
- Low odor

<sup>(1)</sup> **Note:** For information on compatibility with elastomers, paints and plastics, please call our Technical Support Hot Line.

**Synthetic PAO-  
Based Fluid For  
Seal Service**

### **Contact Information**

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

**U.S. Technical  
Services Hot Line:  
1-800-766-0050**

**International:  
+1-832-486-3363**

**E-mail address:  
lubricants@  
conocophillips.com**

<http://lubricants.conocophillips.com>

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## Syncon® Barrier Oil

### Typical Properties

<b>ISO Grade</b>	<b>5</b>
Specific Gravity @ 60°F	0.797
Density, lbs/gal @ 60°F	6.64
Color, ASTM D1500	0.5
Flash Point (COC), °C (°F)	149 (300)
Pour Point, °C (°F)	-60 (-76)
Viscosity,	
cSt @ 40°C	5.10
cSt @ 100°C	1.70
SUS @ 100°F	43.7
SUS @ 210°F	31.9
Viscosity Index	N/A
Acid Number, ASTM D974, mg KOH/g	0.17
Copper Corrosion, ASTM D130	1a
Demulsibility, ASTM D1401, minutes to pass	10
Foam Test, ASTM D892	Pass
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.55
Oxidation Stability, RPVOT, ASTM D2272, minutes	2,400
Rust Test, ASTM D665 A&B	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>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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