





## **Syncon® Barrier Oil**

Syncon Barrier Oil is a premium quality, non-reactive, synthetic, low-viscosity 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 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. 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

Synthetic PAO-Based Fluid For Seal Service

CONTACT INFORMATION

Phillips66 Lubricants.com

U.S. Customer Service:

1-800-368-7128

Technical Hotline: **1-877-445-9198** 

International Customer Service: 1-832-765-2500

E-mail address: lubricants@ p66.com

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







Syncon® Barrier Oil Typical Properties	
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, Seq. I, ml	0/0
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 <a href="http://w3apps.phillips66.com/NetMSDS">http://w3apps.phillips66.com/NetMSDS</a>.