



MOBIL SYNTURION™ SERIES

Mobil Industrial , United States

Premium Performance Seal Oil, Barrier Fluid, Buffer Fluid

Product Description

Mobil Synturion™ Series are premium-quality, synthetic-base fluids specially formulated to meet the demanding lubrication and cooling requirements of mechanical seals and to help maximize seal life. The inherent properties of the polyalphaolefin synthetic base oil, enhanced by a proprietary additive package, are ideally suited to the special requirements of mechanical seal operation.

Features and Benefits

Features	Advantages and Potential Benefits
Low viscosity, reducing internal friction and facilitating heat transfer	Efficient heat transfer from seal surfaces keeps seals cooler, extending life
Outstanding thermal and oxidative stability at high operating temperatures	Resistance to deposit formation, which can extend seal life Longer oil life in seal circulation systems
Excellent lubricity and anti-wear protection	Reduces friction and can increase efficiency in sliding mechanisms such as seal faces, with potential for lower steady-state operating temperatures and longer seal life
High flash point	Safer operation in higher temperature applications Reduced seal oil consumption
Compliance with FDA requirements for incidental food contact	Provides excellent performance in process equipment used in food industry, and food support industries
Inert and compatible with most process fluids	Provides consolidation opportunity, lubricating more process equipment with one fluid

Applications

Mobil Synturion™ has been developed for the demanding application of barrier/buffer fluid for mechanical seals. The greatest enemies of mechanical seals are excessive surface temperatures and the resulting formation of hard deposits that further increase heat and friction. These factors can shorten seal life, potentially leading to product contamination and costly equipment downtime. Mobil Synturion™ is specifically formulated to help prevent premature seal failure. Its excellent thermal stability, low internal friction and heat transfer properties protect against excessive heat buildup and seal surfaces. Additionally, its proprietary additive package is designed to resist degradation and the subsequent formation of deposits.

Specifications and Approvals

This product is registered to the requirements of:	SYNTURION 18	SYNTURION 6
NSF H1	X	X

This product meets or exceeds the requirements of:	SYNTURION 18	SYNTURION 6
--	--------------	-------------

This product meets or exceeds the requirements of:	SYNTURION 18	SYNTURION 6
21 CFR 178.3570	X	X

Properties and Specifications

Property	SYNTURION 18	SYNTURION 6
ASTM Color, ASTM D1500	L0.5	1
Density @ 15 C, kg/l, ASTM D4052	0.818	0.799
Flash Point, Cleveland Open Cup, °C, ASTM D92	218	168
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	18	5.2
Pour Point, °C, ASTM D97		-63

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

02-2024

Exxon Mobil Corporation

22777 Springwoods Village Parkway
Spring TX 77389
1-800-ASK MOBIL (275-6624)

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

ExxonMobil

Exxon

Mobil

Esso

XTOENERGY

© Copyright 2003-2025 Exxon Mobil Corporation. All Rights Reserved