



Mobil Synturion™ 6

Supreme Performance Seal Oil, Barrier Fluid, Buffer Fluid

Product Description

Mobil Synturion™ 6 is a premium-quality, synthetic-base fluid specially formulated to meet the demanding lubrication and cooling requirements of mechanical seals --and to maximize seal life. The superb 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 6 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. Synturion 6 is specifically formulated to 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.

Thermal and Oxidation Stability: In laboratory testing, Synturion 6 demonstrated significantly superior oxidation life and corrosion protection when compared with leading competitive products. The exceptional stability of Synturion 6 is particularly advantageous where hot process fluids can stress the lubricant, ensuring reliable performance at sustained high operating temperatures. In field tests, Synturion 6 has shown excellent resistance to reactive and corrosive process components such as H₂S and acids.

Mobil Synturion 6 is NSF H-1 registered for food machinery lubrication and meets the requirements of FDA regulation 21CFR 178.3570 "Lubricants for Incidental Contact with Food".

Specifications and Approvals

Mobil Synturion 6 meets or exceeds the requirements of: Synturion 6	
FDA 21 CFR 178.3570	X

Mobil Synturion 6 is registered to the requirements of: Synturion 6	
NSF H1	X
NSF Registration Number	138223

Typical Properties

Mobil Synturion 6	
Viscosity, ASTM D 445	
cSt @ 40°C	5.2
cSt @ 100°C	1.89
Viscosity Index, ASTM D 2270	135
Pour Point, °C, ASTM D 97	-63
Flash Point, °C, ASTM D 92	168
Viscosity @ -35°C, cP, ASTM D 2983	200
Specific Gravity, ASTM D 4052, @ 15°C	0.799
Color, ASTM D 1500	1

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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.

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