



Mobil SHC PF 462

High Temperature Grease

Product Description

Formulated with perfluoropolyether that has been thickened with polytetrafluoroethylene, Mobil SHC PF 462 is a long-life, severe-service grease for bearings, valves, seals and other applications that require oxidation stability and lubrication performance at high temperatures.

Features and Benefits

Mobil SHC PF 462 provides dependable performance up to 240 °C (464 °F). Mobil SHC PF 462 provides excellent lubricity, corrosion resistance, thermal and oxidative stability and chemical inertness.

Mobil SHC PF 462 is non-flammable and highly resistant to oxidative degradation at temperatures up to 240 °C (464 °F). The high-temperature stability provides bottom line savings from improved reliability and reduction in grease usage and manpower through extended re-lubrication intervals

Mobil SHC PF 462 is resistant to attack by chemicals and contaminants, including hydrocarbon oils, alcohols, acids, and caustic.

- Superb High-Temperature Stability
- Dependable performance at high temperatures
- Resistance to chemicals, caustics and solvents *

* Testing should be conducted to verify resistance before use in intended service. Not intended for pressurized oxygen service without testing and validation by the equipment builder and intended operator.

Applications

Mobil SHC PF 462 is engineered to provide excellent performance for a wide variety of demanding high-temperature applications including those found in the textile, steel, aluminum rolling, automotive, aerospace and forest product industries.

Mobil SHC PF 462 is compatible with other PFPE/PTFE greases, but should not be used with typical mineral or synthetic greases.

Typical Properties

Mobil SHC PF 462

| | |
|--|-----------------|
| NLGI Grade | 2 |
| Color, Visual | White |
| Viscosity of Oil, ASTM D 445 | |
| cSt @ 40 °C | 440 |
| cSt @ 100 °C | 42 |
| Base Oil Flash Point (COC), ASTM D 92 | Does not ignite |
| Roll Stability, ASTM D 1831, % Change | 2.7 |
| Oil Separation, ASTM D 1742 (% Wt. Loss) | 1.08 |

Dropping Point, ASTM D 2265 259

| | |
|--|--------------|
| Dropping Point, ASTM D 2266 | 230 |
| 4-Ball Wear, ASTM D 2266, Scar, mm | 0.58 |
| 4-Ball Weld Load, ASTM D 2596, kg | 800 Pass |
| Copper Corrosion, ASTM D 4048, Rating | 1b |
| Rust Test, ASTM D 1743, Rating | Pass |
| EMCOR Rust Test, ASTM D 6138, Distilled Water, Rating | 0,0 |
| Water Spray-Off, ASTM D 4049 (% Wt. Loss) | 5 |
| Water Washout, ASTM D 1264, 79 C, % Loss | 0.94 |
| Low Temperature Mobility @ 0 °F (-18 °C), MM 1390 (Grams/Min.) | 7.4 |
| High Temperature Wheel Bearing Leakage @ 160 °C, ASTM D 4290 (Grams) | 0.5 |
| Differential Scanning Calorimeter @ 210 °C, ASTM D 5483 (Minutes to Induction) | No Induction |

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. MSDSs 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.

The Mobil logotype, the Pegasus design, and Mobil SHC PF 462 are trademarks of Exxon Mobil Corporation, or one of its subsidiaries.

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.

Copyright © 2001-2016 Exxon Mobil Corporation. All rights reserved.