# MOBIL SHC GREASE 462 PF

Mobil Industrial , Canada

High Temperature Grease

## Product Description

Mobil SHC Grease 462 PF is formulated with perfluoropolyether (PFPE) that is thickened with polytetrafluoroethylene (PTFE). Mobil SHC Grease 462 PF is a long-life, severe-service grease for bearings, valves, seals and other applications that require oxidation stability and lubrication performance at very high temperatures. Mobil SHC Grease 462 PF is also suitable for the lubrication of food processing equipment where NSF H1 registration is required for addressing cases of incidental contact with food.

## Features and Benefits

| Features | Advantages and Potential Benefits |
|---|---|
| Excellent lubricity, corrosion protection and resistance to water | ▪ Long life protection |
| Superb high temperature oxidative stability | ▪ Mobil SHC Grease 462 PF is non-flammable, presents very low volatility and is highly resistant to degradation at temperatures up to 240˚C (464˚F).<br>▪ Reliable performance at high temperatures. The high-temperature stability provides bottom line savings from improved reliability and reduction in grease usage and manpower through extended re-lubrication intervals. |
| NSF H1 registration No. 157056, Kosher & Parve approval, Hallal approval | Suitable for applications in food processing and packaging where incidental contact with food is a risk, and in Kosher and Halal food preparation for multi faith applications. |
| Chemical inertness | ▪ Resistance* to chemicals, caustics and solvents, including hydrocarbon oils, alcohols, acids, and caustic substances.<br><br>Note *: 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 Grease 462 PF is engineered to provide excellent performance for a wide variety of demanding high-temperature applications including those found in packaging, corrugated paper, textile, steel, aluminum rolling, glass, chemical, automotive, aerospace, forestry and food industries.

Mobil SHC Grease 462 PF is recommended for corrugated paper plants for single-facer bearings and pre-heater bearings in heated rolls sections and other bearings.

Mobil SHC Grease 462 PF should not be used when mixed with other mineral or synthetic greases unless of similar composition.

Mobil SHC Grease 462 PF is registered to the requirements of NSF H1 for incidental food contact which means a limitation of 10ppm grease in food product per FDA 21CFR 178.3570. It is not to be used as a direct food contact lubricant.

## Specifications and Approvals

| This product has the following approvals: |
|---|
| Kosher & Parve |

| This product has the following approvals: |
| --- |
| Halal |

| This product is registered to the requirements of: |
| --- |
| NSF H1 |

Properties and Specifications

| Property | |
| --- | --- |
| Grade | NLGI 2 |
| Color, Visual | White |
| Appearance, Visual | Smooth, Homogeneous |
| Dropping Point, °C, ASTM D2265 | 253 |
| Viscosity @ 40 C, Base Oil, mm2/s, ASTM D445 | 510 |
| Viscosity @ 100 C, Base Oil, mm2/s, ASTM D445 | 45.2 |
| Penetration, 60X, 0.1 mm, ASTM D217 | 280 |
| Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2596 | 800 |
| Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266 | 0.55 |
| SKF Emcor Rust Test, Distilled Water, ASTM D6138 | 0 - 0 |
| Copper Strip Corrosion, Rating, ASTM D4048 | 1a |
| Water Washout, Loss @ 79 C, wt%, ASTM D1264 | 1.0 |
| Water Sprayoff, Loss, %, ASTM D4049 | 6.4 |
| Low Temperature Torque, Starting, -20 C, g-cm, ASTM D1478 | 1575 |
| Low Temperature Torque, Running, -20 C, g-cm, ASTM D1478 | 350 |
| Density, by Pycnometer, 15.6 C, Grease, lb/USg, PRLWI198 | 1.92 |

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

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11-2023

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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

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