# Mobil SHC™ Grease 102 WT

Mobil Industrial , Sweden

High Performance Synthetic Grease for Wind Turbines

## Product Description

Mobil SHC™ Grease 102 WT is scientifically engineered to meet or exceed the demanding requirements for severe wind turbine pitch and yaw applications at extreme cold temperatures. The unique features of synthetic base fluids are combined with those of a high quality lithium complex thickener. This state-of-the-art formulation helps contribute to excellent extreme low temperature application as well as high-temperature performance with powerful structural stability and resistance to water.

## Features and Benefits

- The low internal friction and high natural viscosity index of the base fluids offers the potential for improved low-temperature starting and running torque and pumpability down to -50 °C (-58° F).
- Superb thermal stability and oxidation resistance compared to conventional greases helps provide extended service life with longer relubrication intervals.
- Excellent rust and corrosion protection provides excellent performance in wet conditions for reduced downtime and maintenance costs compared to/versus conventional greases.
- Outstanding structural stability in the presence of water helps retain grease consistency in hostile aqueous environments.
- Excellent pumpability provides reliable lubrication of bearings using centralized grease systems or grease dispensers.
- Low traction coefficient offers potential improved mechanical life and reduced energy costs versus conventional greases.

## Applications

- Mobil SHC Grease 102 WT meets most specifications of wind turbineuilders and component suppliers and has demonstrated outstanding performance in the lubrication of yaw, pitch, and generator bearings either manual greased or using centralized grease systems or grease dispensers.
- For wind turbines operating under extreme low temperature environments.
- Recommended application temperature range for continuous operation is from -50° C (-58° F) to 120°C (248° F).

## Specifications and Approvals

| This product has the following approvals: |
|---|
| Tested and approved for material compatibility by IMO |
| Tested and approved for seal compatibility by ThyssenKrupp Rothe Erde |

| This product meets or exceeds the requirements of: |
|---|
| DIN 51825: 2004-06 KPHC2K-50 |

## Properties and Specifications

| Property | |
|---|---|
| Grade | NLGI 2 |

| Property | |
|---|---|
| Corrosion, Bearing, 48 h, 52 C, Rating, ASTM D1743 | PASS |
| Dropping Point, °C, ASTM D2265 | 263 |
| Four-Ball Extreme Pressure Test, Weld Load, kgf, ASTM D2596 | 315 |
| Penetration, 60X, 0.1 mm, ASTM D217 | 285 |
| SKF Emcor Rust Test, Distilled Water, ASTM D6138 | 0, 0 |
| Water Washout, Loss @ 79 C, wt%, ASTM D1264 | 6 |

### 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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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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