



## Mobil SHC™ Grease 681 WT

Mobil Grease , Austria

High Performance Synthetic Grease for Wind Turbines

### Product Description

Mobil SHC™ Grease 681 WT is specially formulated to lubricate yaw, pitch and main bearings of wind turbines. It is a high performance synthetic lithium complex specially designed to exceed the demanding requirements of wind turbine applications at extreme temperatures. The advanced synthetic base fluid with its low tr coefficient provides excellent low temperature pumpability and very low starting and running torque.

### Features and Benefits

- Superb thermal stability and oxidation resistance compared to conventional greases helps provide extended service life with longer relubrication intervals for turbines
- Outstanding low temperature performance compared to conventional greases provides excellent protection at low temperatures providing low torque on start-up at low temperatures
- Excellent rust and corrosion protection provides enhanced performance in wet conditions for reduced downtime and maintenance costs compared to conventional greases
- Outstanding structural stability in the presence of water helps retain grease consistency in hostile aqueous environments
- Excellent low temperature pumpability provides reliable lubrication of bearings using centralized grease systems or grease dispensers.
- Low traction base oil coefficient offers potential improved mechanical life and reduced energy costs versus conventional greases.
- Increased oil viscosity for extra protection with excellent low temperature properties
- No dye for improved housekeeping
- Excellent performance in the Wind Industry Riffel test

### Applications

- Mobil SHC Grease 681 WT is an NLGI 1.5 Grade extreme pressure grease with ISO VG 680 synthetic base fluid recommended for tough wind turbine applications requiring additional EHL protection
- Mobil SHC Grease 681 WT meets most specifications of wind turbine builders and component suppliers and can demonstrate outstanding performance lubrication of yaw, pitch, and generator bearings either manually greased or using centralized grease systems or grease dispensers.
- Recommended application temperature range for continuous operation is from -40° C to 150°C with proper regreasing intervals

### Typical Properties

|  | Mobil SHC Grease 681 WT |
|--|-------------------------|
| NLGI Grade   | 1.5                     |
| Thickener Type                                       | Lithium Complex         |
| Colour, Visual                                       | Beige                   |
| Penetration, Worked, 25°C, ASTM D 217                | 305                     |
| Dropping Point, °C, ASTM D 2265                      | 260                     |
| Viscosity of Oil, ASTM D 445, cSt 40°C               | 680                     |
| Viscosity of Oil, ASTM D 445, cSt 100°C              | 74                      |
| Roll Stability, Pen Change, ASTM D 1831, mm/10       | 10                      |
| 4-Ball Wear Scar, ASTM D 2266                        | 0.6                     |
| 4-Ball Weld, ASTM D 2596, Load, Kg                   | 250                     |
| Water Washout, ASTM D 1264, Loss at 79°C. % wt       | 7                       |
| EMCOR Rust Test, 10 % Synthetic Sea Water, ASTM 6138 | 0,0                     |

|   | Mobil SHC Grease 681 WT |
|---|-------------------------|
| Corrosion Protection, ASTM D 1743, Rating   | Pass                    |
| Copper Strip Corrosion, ASTM D 4048, Rating | 1a                      |

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.as>

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POLDERDIJKWEG

B-2030 Antwerpen

Belgium

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