



Mobil SHC™ Grease 68 IPC

Mobil Industrial , Germany

High Performance Synthetic Grease for Wind Turbines

Product Description

Mobil SHC™ Grease 68 IPC is high performance synthetic lithium complex grease specially formulated to lubricate applications that are prone to fretting and false brinelling, such as wind turbine Individual Pitch Control (IPC) rotor blade bearings. Balanced additive chemistry providing excellent wear protection and load carrying capacities make it also well suited for automotive applications.

Wind Turbines

Mobil SHC™ Grease 68 IPC is specially designed to exceed the demanding requirements of wind turbine pitch and yaw bearings that do not complete full rotations at extreme temperatures. Such systems can be prone to inadequate lubrication due to difficulty in flow of lubricant back into contact zone. The advanced synthetic base fluid facilitates lubricant flow to prevent such issues while the advanced formulation provides excellent low temperature pumpability, very low starting and running torque, excellent rust and corrosion protection, and load carrying protection for individual pitch control bearings.

Features and Benefits

- Excellent performance in the Wind Industry Riffel test that mimics the sever vibration and corrosion conditions in wind turbine pitch and yaw bearings
- Excellent performance in false brinelling (SNR FEB II test)
- Great fretting protection due to optimized base oil viscosity and additive chemistries
- Outstanding low temperature performance compared to conventional greases provides excellent protection at low temperatures providing low torque and easy start-up at low temperatures
- Superb thermal stability and oxidation resistance compared to conventional greases helps provide extended service life with longer relubrication intervals or fill-for-life
- Excellent rust and corrosion protection provides enhance 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 low temperature pumpability provides reliable lubrication of bearings using centralized grease systems or grease dispensers.
- Improved additive system for EP protection under high static and dynamic loads
- Low traction base oil coefficient offers potential improved mechanical life and reduced energy costs versus conventional greases.
- No dye for improved housekeeping

Applications

- Mobil SHC™ Grease 68 IPC is an NLGI 1.5 Grade extreme pressure grease with ISO VG 68 synthetic base fluid recommended for applications where bearings incomplete revolutions and lubricant reintroduction into contact zone is crucial
- Mobil SHC™ Grease 68 IPC is recommended where incomplete rotations, fretting and false brinelling can contribute to failures
- Mobil SHC™ Grease 68 IPC meets most specifications of wind turbine builders and component suppliers and can demonstrated outstanding performance in the lubrication of pitch and yaw bearings either manual 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

Specifications and Approvals

This product meets or exceeds the requirements of:

DIN 51825: 2004-06 KPFHC1-2N-50

Properties and Specifications

Property	
Grade	NLGI 1.5
Color, Visual	Beige
Dropping Point, °C, ASTM D2265	260
FAG FE9, 1500 N, 6000 RPM, Unshielded at 140 C, L50 hrs., DIN 51821	167
Flow Pressure @ -50 C, mbar, DIN 51805	910
Roll Stability, Penetration Consistency Change, 0.1 mm, ASTM D1831	-8
Penetration, 60X, 0.1 mm, ASTM D217	305
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1A
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.5
Four-Ball Extreme Pressure Test, Weld Point, kgf, ASTM D2596	500
Corrosion Preventive Properties, Rating, ASTM D1743	Pass
Viscosity @ 100 C, Base Oil, mm ² /s, ASTM D445	11.4
Viscosity @ 40 C, Base Oil, mm ² /s, ASTM D445	68
Viscosity Index, ASTM D2270	162
SKF Emcor Rust Test, 100% Synthetic Sea Water, ASTM D6138	1.1

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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EXXONMOBIL LUBRICANTS & SPECIALTIES EUROPE, A DIVISION OF EXXONMOBIL PETROLEUM & CHEMICAL, BVBA (EMPC)

POLDERDIJKWEG

B-2030 Antwerpen

Belgium

You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: <https://www.mobil.com/de/de-de/kontakt>

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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