

Specialty Lubricants for the Wind Power Industry



MOVING YOUR WORLD

GLEITMO® 585 K SPECIALTY GREASE FOR PITCH AND YAW BEARINGS

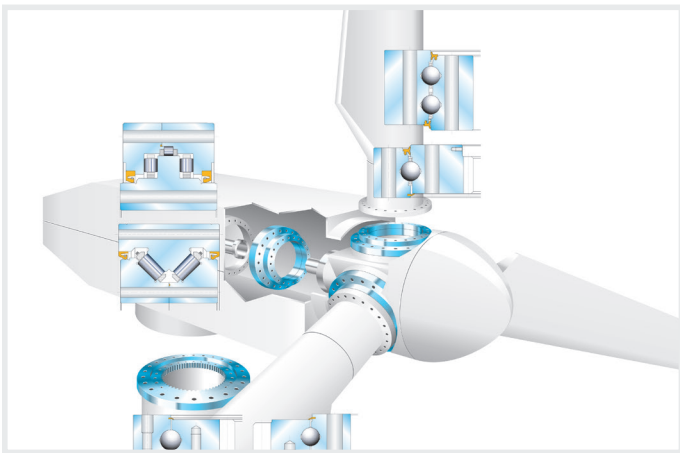


Photo: Rothe Erde

GLEITMO® 585 K is a globally recognized specialty lubricant designed to extend the life of pitch and yaw bearings in wind turbines. Its unique combination of synthetic base oil, performance enhancing additives, and propriety “white solids” provides superior wear protection for this challenging application.

GLEITMO® 585 K is the preeminent grease for use in wind turbine slew bearings. Since greases cannot be filtered like oils— wear starts in the bearing and because the wear debris has nowhere to go it thereby propagates more wear. The reactive “white solids” in the GLEITMO® 585 K provides excellent long-term wear protection thus keeping the bearing performing for an extended life cycle. Performance testing also shows that the GLEITMO® 585 K bleeds less than competitive greases. This means the grease remains the same consistency throughout the application, and does not harden or run out of the bearing and into grease containment traps.

GLEITMO® 585 K provides:

- Outstanding wear protection, especially in shock loads and oscillatory movement
- Extremely low operating temperature range allows the GLEITMO® 585 K to be used even in the coldest climate conditions
- Protects against false brinelling and fretting corrosion
- Approved by numerous OEM Turbine and Bearing manufacturers
- Proprietary white solids provide protection against wear from the extreme vibratory environment seen especially in pitch bearings
- Readily available in several package sizes

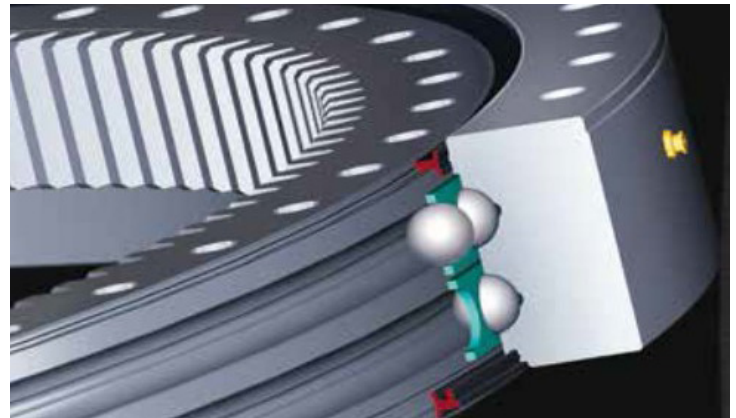


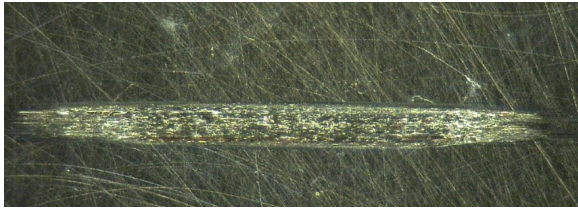
Photo: Rothe Erde

The Effect of GLEITMO® 585 K

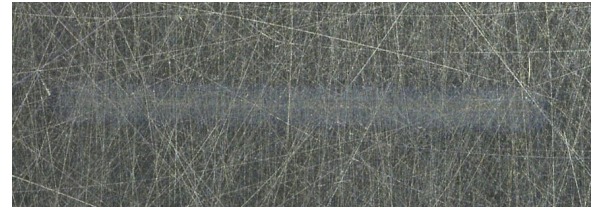
The pictures below show the superior wear protection provided by the GLEITMO® 585 K when compared to a competitor's wind grease.

SRV with Competitor Grease

40x

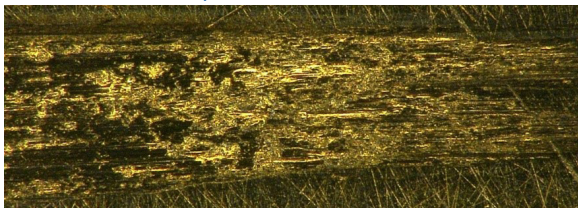


SRV with GLEITMO® 585 K

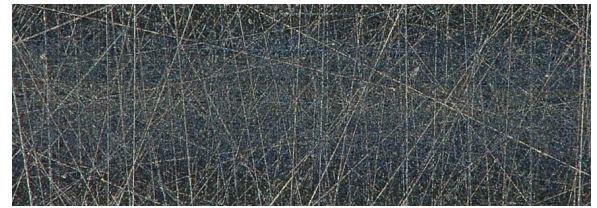


SRV with Competitor Grease

200x



SRV with GLEITMO® 585 K



In every one of the industry specific performance testing below the GLEITMO® 585 K once again provides superior test results versus our competitor's offerings. Results that are reflected in the real world performance of the grease.

Test	Unit	DIN/Standard	GLEITMO® 585 K	Competitor Grease
RE Torque Test Starting Torque at -40 °C	Nm	Rothe Erde	336	4,973
RE Torque Test Running Torque at -40 °C	Nm	Rothe Erde	817	11,442
USS Mobility (-25 °C)	g/min	USS	9.11	0.91
USS Mobility (+25 °C)	g/min	USS	1,342	237
Oil Separation Test	percent	DIN 51818	2.5	5.0
Maximum Ripples Depth w/ salt water	µm	RE/IME	3	15
Average Ripples Depth w/ salt water	µm	RE/IME	1	3
Corrosion Degree w/ salt water	Rating	RE/IME	1	2
Four Ball Weld Test	Newtons	DIN 51350	4,200	2,400

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We therefore recommend you consult a FUCHS Lubricants Co. Application Engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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FUCHS LUBRICANTS CO.
17050 Lathrop Avenue
Harvey, IL 60426
United States
Phone + 1 708-333-8900
E-mail Lubritech-US@fuchs.com
www.fuchs.com/us

FUCHS LUBRICANTS CANADA LTD.
(Eastern Division)
405 Dobbie Drive
Cambridge, Ontario
N1R 5X9
Canada
Phone +1 519-622-2040
E-mail Lubritech-US@fuchs.com
www.fuchs.com/ca

FUCHS LUBRICANTS CANADA LTD.
(Pacific Division)
19829 99A Avenue
Langley, British Columbia
V1M 3G4
Canada
Phone +1 604-888-1552
E-mail Lubritech-US@fuchs.com
www.fuchs.com/ca

LUBRICANTES
FUCHS DE MÉXICO SA DE CV
Acceso C No. 101
Parque Industrial Jurica
76120 Querétaro, Qro.
Mexico
Phone + 52 (442) 2 38 91-00
E-mail Lubritech-US@fuchs.com
www.fuchs.com/mx