



WOLFRATHERM[®] BEARING DRY LUBRICATION

Bearing Coating Wolfratherm®

Wolfratherm® Bearing Dry Lubrication Product Information

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Description

Wolfratherm ® is a proven, outstanding permanent dry lubrication for bearings on basis of the solid lubricant MoS2. An optimal binding and anchoring of MoS2 is supported by a galvanically applied 3-layer system.

This coating is useful when there is a lubrication with grease or oil not possible, desirable or acceptable. Examples are roller bearings, which are installed at low and high temperatures, within vacuum, within radiation or due to the risk of fogging in optical systems.

Wolfratherm ® is tailored to the characteristics of rolling bearings.

- Small layer thickness (5 microns)
- Increased corrosion resistance.
- applicable from -200 ° C to 350 ° C
- low friction
- Conformity with Directive 2002/95/EC (RoHS)
- Conformity with Directive 2000/53/EC (ELV)



Outer ring, inner ring and cage halves are individually coated in a disassembled state

Coating

The Wolfratherm [®] coating of your bearing parts is conducted in our house. Individual components such as outer ring, inner ring and cage components are individually coated in a multi-stage process. Then these parts are assembled together with the non-coated balls by the manufacturer of the rolling bearings. The layer structure is approximately 5µm and provides an improved corrosion protection, compared to the uncoated parts. Almost all major bearing types and sizes including miniature bearings can be coated.

Coatings can be applied to bearing steels, as well as nonferrous metals, stainless steels and aluminum substrates. Specifications

Characteristics

- ▶ Temperature range: -200 to 350 ° C.
- Speed factor: 600 000 mm · min-1
- Processing size: D> 3 mm
- Color: metallic gray
- Tannert sliding indicator for Wolfratherm / steel at 20 ° C, 0.24 mm sec-1 and 300N is about 0.12

Resistance

- relative humidity up to 90%.
- no aqueous condensation permitted
- not acid-resistant
- resistant to lubricants, fuels, solvents

Clearance

Should be at C3

Applications

- Vacuum technology (up to ultra high vacuum)
- Aerospace
- optics
- electronics
- cryogenic technology

Other coatings: Acosur ®, anti-corrosion coatings Losur OM®, bearing dry lubrication for high temerature use Dekosur ®, decorative, corrosion-resistant tool coating

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