



## Molub-Alloy BRB 572

Bearing grease

### Description

CASTROL MOLUB-ALLOY™ BRB 572 is a bearing grease, applicable for normal and elevated temperature (max. 120°C) and for long service intervals. Work and shear stability matches the service life of rolling bearings. Controlled mobility under “full pack” conditions act as a seal against contamination without excess churning and heat generation. • The base oils used in CASTROL MOLUB-ALLOY™ BRB 572 are high-quality mineral oils, containing inhibitors against rust and corrosion, and they are fortified against oxidation. • This unique grease is outstanding in shear stability and in controlled mobility under shear. This results from the selection of a most stable lithium thickening system and special manufacturing techniques. • Load carrying and antiwear properties beyond those of conventional greases result from chemical additives working synergistically with select CASTROL MOLUB-ALLOY™ lubricating solids, blended uniformly throughout the grease. The lubricating solids are most effective in protecting the machined surfaces of new bearings in critical running-in periods. Good bearing surfaces are essential to extended service life.

### Application

- CASTROL MOLUB-ALLOY™ BRB 572 is an outstanding grease for all types of bearings (rolling, ball, roller bearings), including precision built. It is also used in general application, including journal bearings.
- “Full Pack Concept”: customarily, bearing manufacturers recommend packing bearings only 1/3 to 1/2 full to avoid churning, shear loss of consistency and overheating. In bearings with minimal grease capacity, CASTROL MOLUBALLOY™ BRB 572 can occupy effectively 60 % of this capacity.
- The bulk grease surrounding the action zone remains undisturbed, sealing out contaminants and minimizing “breathing” as a source of oxidation, water vapor and fine dust.
- In industrial operations the good sealing effect prevents dirt from entering the bearing.
- The outstanding physical and chemical stability of CASTROL MOLUB-ALLOY™ BRB 572 allows to extent relubrication intervals of bearings in inaccessible places.

### Advantages

- Excellent sealing from hazardous environments, including dust, water and water vapor.
- Overall savings are derived from the above, reduced maintenance costs and downtime, smoother and more efficient operation with extended part life and extended lubricating cycles.

## Typical Characteristics

| Name  | Method                 | Units              | Molub-Alloy BRB 572 |
|---|------------------------|--------------------|---------------------|
| DIN Classification  | DIN 51502              | -                  | KPF 2K-30           |
| Thickener type  | -                      | -                  | Lithium Soap        |
| Worked Penetration (60 strokes @ 25°C / 77°F)                               | ISO 2137 / ASTM D217   | 0.1 mm             | 265-295             |
| Worked Penetration (100,000 strokes @ 25°C / 77°F) - change from 60 strokes | ISO 2137 / ASTM D217   | 0.1 mm             | max. 25             |
| Dropping point  | ISO 2176 / ASTM D566   | °C/°F              | >180/>356           |
| Base Oil Viscosity @ 40°C / 104°F   | ISO 3104 / ASTM D445   | mm <sup>2</sup> /s | 143                 |
| Base Oil Viscosity @ 100°C / 212°F  | ISO 3104 / ASTM D445   | mm <sup>2</sup> /s | 13.5                |
| Flash Point - open cup method   | ISO 2592 / ASTM D92    | °C/°F              | >230/>446           |
| Water Resistance  | DIN 51807-1            | Rating             | 1                   |
| Rust Test - EMCOR (distilled water)   | ISO 11007 / ASTM D6138 | Rating             | 0/0                 |
| Copper Corrosion (3 hrs, 100°C / 212°F)                                     | ASTM D4048             | Rating             | 1                   |
| Roll Stability test - Shear Stability                                       | ASTM D1831             | 0.1 mm             | 3                   |
| Timken OK Load  | ASTM D2509             | kg/lbs             | 16/35.3             |
| Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)  | ISO 51350 / ASTM D2266 | mm                 | 0.52                |
| Four Ball Wear test - Wear Scar Diameter                                    | DIN 51350-5E           | mm                 | <0.9                |
| SKF R2F-A test  | SKF test method        | Pass               | Pass                |
| SKF R2F-B test (120°C)  | SKF test method        | Pass               | Pass                |
| FE-9 Bearing Life test - A/1500/6000-150                                    | DIN 51821-2            | Pass               | Pass                |
| Flow pressure @ -20°C / -4°F  | DIN 51805              | mbar               | <600                |

## Additional Information

- CASTROL MOLUB-ALLOY™ BRB 572 is not compatible with sodium or inorganic base greases. Lubrication intervals should be increased gradually, to ensure effective removal of previous lubricants and the formation of CASTROL MOLUB-ALLOY™ solid lubricants on the bearing surfaces.
- CASTROL MOLUB-ALLOY™ BRB 572 may be applied by automatic dispensing systems designed for NLGI 2 consistency.

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Castrol Industrial, Technology Centre, Whitchurch Hill, Pangbourne, Reading, RG8 7QR, United Kingdom

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