

## **Castrol Molub-Alloy 3136**

Lubricating Grease for High Loads

### **Description**

MOLUB-ALLOY™ 3136 has been designed for high loads under unfavorable ambient conditions. Due to its formulation and additives it is able to cope with the extremely high loads and shock loads present in the steel and construction industry as well as in mining and forestry.

- For the production of MOLUB-ALLOY 3136 lubricating grease a mixture of mineral oil and polymers is used which form a thick lubricating film suited to withstand shock loads and vibrations.
- The shear-stable thickener has an excellent sealing effect against impurities in case mechanical seals have failed or are missing all together (sealing grease collar at the bearing).
- Inhibitors against corrosion and oxidation improve the rust protection and aging resistance of the base oil.

### **Application**

- Rolling bearings, all types of sliding bearings, spindles, joint couplings (except for high-speed precision couplings), running gears, cams as well as general grease lubricating points especially where loads are high and speeds low.
- The grease is applied to the lubricating points by a hand lubricator or via an automatic lubricating system which is suited for NLGI 1 greases.

### **Conditions of Use**

- MOLUB-ALLOY 3136 should not be mixed with lubricating greases with different soap base.
- After changing over to MOLUB-ALLOY 3136 the lubricating intervals should be gradually extended to ensure a thorough removal of the previous grease.

### **Advantages**

- Very good sealing effect due to its optimum adhesion.
- Selected EP additives ensure an excellent protection against wear and scuffing even in boundary and mixed friction areas; this feature is especially important during stop-and-go operation, low speeds and/or high loads and shock loads.
- These benefits result in economic savings: less repair work and fewer downtime periods, prolonged service life of machine components and extended relubrication intervals

## Typical Characteristics

| Name                                                | Method                 | Units             | Molub-Alloy 3136 |
|-----------------------------------------------------|------------------------|-------------------|------------------|
| DIN Classification                                  | DIN 51502              | -                 | KPF 1 K-20       |
| Soap Base                                           | -                      | -                 | Lithium          |
| Worked Penetration (60 strokes @ 25°C / 77°F)       | ISO 2137 / ASTM D217   | 0.1mm             | 310 - 340        |
| Dropping point                                      | ISO 2176 / ASTM D566   | °C/°F             | >180/>356        |
| Base Oil Viscosity @ 40°C / 104°F                   | ISO 3104 / ASTM D445   | mm²/s             | 880              |
| Base Oil Viscosity @ 100°C / 212°F                  | ISO 3104 / ASTM D445   | mm²/s             | 63               |
| Viscosity Index                                     | ISO 2909 / ASTM D2270  | -                 | 137              |
| Oxidation Stability - Rotating Pressure Vessel test | ASTM D942 / DIN 51808  | pressure drop psi | 3.63             |
| Water Resistance                                    | DIN 51807-1            | Rating            | 0 (Pass)         |
| Rust Test - EMCOR (distilled water)                 | ISO 11007 / ASTM D6138 | Rating            | 0/0 (Pass)       |
| Four Ball Wear test - Wear Scar Diameter            | DIN 51350-5E           | mm                | <180             |
| Flow pressure @ -20°C / -4°F                        | DIN 51805              | mBar              | <850             |
| Operating Temperature                               | -                      | °C                | - 20 / +120      |

Subject to usual manufacturing tolerances.

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