



### SHIELD PLUS MINERAL

#### PRODUCT DESCRIPTION:

SHIELD PLUS is a general-purpose lubricating grease based on Lithium Hydroxystearate soap thickener and high-quality mineral base oil. This grease contains antioxidants, rust, corrosion inhibitors, and anti-wear additives. This product is recommended for the lubrication of rolling element bearings, electric motor bearings, water pumps, and sealed-for-life bearings. NLGI 1 and NLGI 2 are designed for general industrial lubrication which can be used through centralized lubrication systems operating at normal temperatures.

#### APPLICATION:

SHIELD PLUS is recommended for the lubrication of rolling-element bearings, electric motor bearings water pumps, and sealed-for-life bearings. These greases are designed for general industrial lubrication which can be used through centralized lubrication systems operating at normal temperatures.

#### FEATURES & BENEFITS:

- The operating temperature range is -20°C to 130°C
- Good oxidation and mechanical stability
- Reliable high-temperature performance
- Long storage life
- Good rust and corrosion protection

#### TYPICAL PROPERTIES:

| TEST                                    | ASTM METHODS | SHIELD PLUS                |         |         |         |         |         |
|---|--------------|----------------------------|---------|---------|---------|---------|---------|
|   |              | NLGI 000                   | NLGI 00 | NLGI 0  | NLGI 1  | NLGI 2  | NLGI 3  |
| NLGI Grade                              | -            |                            |         |         |         |         |         |
| Thickener Type                          | -            | Lithium 12-Hydroxystearate |         |         |         |         |         |
| Appearance                              | Visual       | Smooth & Homogenous        |         |         |         |         |         |
| Color                                   | Visual       | Yellow to Brown            |         |         |         |         |         |
| Work Penetration @25°C                  | ASTM D217    | 445-475                    | 400-430 | 355-385 | 310-340 | 265-295 | 220-250 |
| Copper Strip Corrosion For 24hrs @100°C | ASTM D4048   | 1b max.                    | 1b max. | 1b max. | 1b max. | 1b max. | 1b max. |
| Dropping Point °C, Min                  | ASTM D2265   | N/A                        | N/A     | 190     | 190     | 190     | 190     |
| Water Washout Resistance %Wt @79°C      | ASTM D1264   | N/A                        | N/A     | N/A     | Max 10  |         |         |
| Emcor Rust Preventive Test              | ASTM D6138   | Pass                       |         |         |         |         |         |
| Operating Temperature Range, °C         | INTERNAL     | -20 to 130                 |         |         |         |         |         |
| Base Oil Viscosity @40°C (Cst)          | ASTM D445    | 90-110                     |         |         |         |         |         |

#### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further information on Safety Guidelines please refer to MSDS available on our website phoenixlubricants.com