

ELBALUB 451,452

Elbalub 451,452 Grease is high-viscosity base oil, lithium complex grease designed for the heavy-duty applications found in the construction and mining industry, as well as Cement, trucking and farming applications. Elbalub 451,452 Grease is heavy-duty grease offering high load capability, primarily due to containing high load base oil and synergistic combination of high quality additives. This grease also contains a tackiness additive to enhance retention on lubricant parts. In addition, it offers excellent structural and oxidation stability and high resistance to water washout.

Elbalub 451,452 Grease can be used wherever lithium greases are recommended or preferred, such as in suspension systems, wheel bearings, universal joints, ball joints and anti-friction plain bearings. Also, is well suited for multipurpose lubricant applications in the pulp and paper mill industry, such as paper machine wet ends, felt roll bearings and couplings and press sections.

Characteristics:

- Highly loadable lubricant film
- Excellent wear protection
- Good water resistance
- Service temperatures up to 145°C
- Excellent adhesion and tacky.

Application:

Especially for high-load rolling bearings operating at low to medium speeds such as for:

- Load rollers in rotary kilns for the cement industry,
- Crane wheels,
- Hammer crushers, hammer mills,
- Work rolls in hot strip mills,
- Cold pilger rolling mills and rolling bearings subject to shock or pulsating stress.

Typical Performance Data

| | Smooth, Tacky | Smooth, Tacky | Visual |
|--|---------------|---------------|-------------|
| Texture | | | |
| NLGI Grade | 1 | 2 | ASTM D 217 |
| Worked Penetration | 310-340 | 265-295 | ASTM D-217 |
| Change in Pen after 100,000 strokes | + 20 | + 20 | |
| Drop Point , F | 480 Min. | 500 Min. | ASTM D 2265 |
| Viscosity @ 40 C ,cSt | 451 | 451 | |
| Viscosity @ 100 C ,cSt | 28.4 | 28.4 | ASTM D 445 |
| Viscosity @ 100 F ,SUS | 2429 | 2429 | |
| Viscosity @ 210 F ,SUS | 140 | 140 | |
| Type of thickener | Lithium | Lithium | - |
| 4-Ball EP load, kg 4-Ball Wear @ 40 kgf, | complex | complex | ASTM D 2596 |
| wear scar dia, mm | 500 | 500 | ASTM D 2266 |
| Timken OK load , lbs | 0.50 mm | 0.50 mm | ASTM D 2509 |
| Water washout @ 175 F,% wt | 80 | 80 | ASTM D 1264 |
| Water Spray off, % wt | 5.0 | 2.0 | ASTM D 4049 |
| Wheel Bearing Leakage | 30 max. | 10 max. | ASTM D 1263 |
| Rust Test | 6.0 Pass | 3.0 Pass | ASTM D-1743 |

For Technical, Quality or Product Safety Questions Please Contact:

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