



### Description

ZAP Grease COMPLEX Red EP 3 is a high temperature, extreme pressure lubricating grease based on a lithium complex thickener and severely hydro-treated base oils. The lithium complex thickener makes the product suitable for applications within a wide temperature range, in high loads and in the presence of water. Specially formulated AW/EP additives deliver the right balance of performance characteristics.

### Application

ZAP Grease COMPLEX Red EP 3 is a durable multi-purpose grease suitable for a wide range of applications: from off-road and construction vehicles to heavy duty, agricultural and forestry machinery. Lithium Complex thickener is formulated with high performance additives which makes it the right grease for the lubrication of industrial equipment, especially at elevated temperatures.

It is particularly suitable for the lubrication of various types of bearings including: taper, roller, slide and plain bearings - even in environments where exposed to tough operating conditions.

Especially recommended for inclined and vertical shafts applications operating even under severe vibrations.

Operating temperature range:  $-20^{\circ}\text{C}$  to  $140^{\circ}\text{C}$  (temporary up to  $160^{\circ}\text{C}$ )

### Product data

Stock No. Z-25 / Z-25.1  
 Packages: 400 g Pull-Off Cartridge / 18 kg Keg  
 24 Cartridges per Box  
 50 Boxes per Pallet / 33 Kegs per Pallet  
 Barcode Cartridge / Box: 4752134000963 / 4752134000994  
 Barcode 18 kg Keg: 4752134000970  
 Shelf Life: 5+ years (from date of manufacture)

### Technical data

| Characteristics                            | Test Method | Unit               | Typical Value  |
|--|-------------|--------------------|--|
| NLGI grade                                 | ASTM D 217  | -                  | 3  |
| Thickener                                  |             | -                  | Lithium Complex  |
| Base Oil Viscosity at $40^{\circ}\text{C}$ |             | mm <sup>2</sup> /s | 165  |
| Colour                                     | Visual      | -                  | Red  |
| Appearance                                 | Visual      | -                  | Smooth, Homogenous   |
| Cone Penetration, Worked                   | ISO 2137    | 1/10 mm            | 220 – 250  |
| Dropping Point                             | ISO 2176    | $^{\circ}\text{C}$ | >260   |
| Dynamic Rust Test, EMCOR                   | ASTM D2596  | Rated              | 0-0 Distilled Water  |
| Four-Ball Weld Load                        |             | kgf                | 345  |
| Operating Temperature Range                |             | $^{\circ}\text{C}$ | $-20^{\circ}\text{C}$ to $140^{\circ}\text{C}$ ( $160^{\circ}\text{C}$ ) |

### Performance Features

- Very Good Mechanical Stability**  
 Resistant to softening which ensures against leakage. Keeps lubrication performance under extreme pressure, extends equipment life span under severe vibration conditions.
- Excellent protection against rust and corrosion**  
 Has a strong affinity with metal and the ability to protect bearing surfaces against corrosion
- Very Reliable machinery protection**  
 Continuous lubrication of equipment even under high load and dusty/dirty conditions
- High Temperature Performance**  
 Lithium Complex thickener withstands higher temperatures than conventional lithium soap greases.
- Resistant against water wash-out**  
 Has a great ability to stick to metal surfaces, which prevents water wash-out and spray-off
- Wide Range of Applications**  
 A truly multi-purpose grease, dyed Red for easy identification

### Technical Specifications

ISO 6743-9: ISO-L-XBDHDB 3  
 DIN 51 502: KP3N-20



Above characteristics are mean values given as information for guidance purposes only.

No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the product