



**ZAP GREASE**  
**COMPLEX**

### Description

**ZAP Grease COMPLEX Blue** is a very strong, heavy duty, long life lubricating grease based on a top performing lithium complex thickener and a severely hydro-treated base oils blend of ISO VG 320 viscosity. The grease is designed to operate in sub-arctic regions where operating temperature goes down to  $-30^{\circ}\text{C}$ , as well as in hot applications reaching operating temperature  $160^{\circ}\text{C}$  degrees. The top performing additive technology delivers the right mix of steadily high lubricating performances for long life applications. The product provides premium resistance to oxidation, very good rust and corrosion prevention, extremely high anti-wear properties under very high loads and/or shock loads as well as excellent water washout resistance.

### Application

Use **ZAP Grease COMPLEX Blue** for premium lubrication in a wide range of applications: automotive, marine, heavy-duty on-road and off-road vehicles used in construction and mining sectors, severe conditions in forestry and agricultural machinery.

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

**ZAP Grease COMPLEX Blue** is preferred solution for the lubrication of mining and quarrying equipment's parts like pins and bushings on buckets, shovels, loaders, shakers, crushers and conveyors.

It is also suitable for use in general lubrication of universal joints, axles, ball joints, chassis, bearings, pins, bushings, water pumps, especially where grease is filled for long life applications.

Operating temperature range:  $-30^{\circ}\text{C}$  to  $160^{\circ}\text{C}$  (temporary up to  $170^{\circ}\text{C}$ )

**BLUE**

### Performance Features

- **Very High Load Carrying Capacity**  
A special lithium complex thickener and a blend of top performing additives and high viscosity base oils give inherent extreme pressure properties, even in vibrated applications: four-ball weld load 420 kgf
- **Very Good Mechanical Stability**  
Resistant to softening and leakage, leading to longer re-lubrication intervals. Mechanical stability kept in the presence of water
- **Protection against rust and corrosion**  
Protects metal parts from rust and corrosion. Extends equipment life.
- **Wide Operating Temperature Range**  
Excellent lubrication at high and very low temperatures. Does not liquefy until  $>270^{\circ}\text{C}$
- **Reduced Environmental Impact**  
Does not trigger any CLP classification, formulated to take care about environment
- **Wide Range of Applications**  
An exceptionally versatile grease, dyed Blue distinguishin g this very high performance Grease

### Technical Specifications

ISO 6743-9: ISO-L-XCEIB 2  
DIN 51 502: KP2P-30  
ASTM D4950 GC-LB



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## Technical Data

**BLUE**

Characteristics	Test Method	Unit	Typical Value
NLGI grade	ASTM D 217	-	2
Thickener		-	Lithium Complex
Base Oil			Mineral
Base Oil Viscosity at 40°C		mm <sup>2</sup> /s	320
Colour	Visual	-	Blue
Appearance	Visual	-	Smooth, Homogenous
Cone Penetration, Worked	ISO 2137	1/10 mm	265 – 295
Dropping Point	ISO 2176	°C	>270
Dynamic Rust Test, EMCOR	ISO 11007	Rated	0-0 Distilled Water
Water Washout Test	DIN 11009		6% typical (79°C, wt.% loss)
Four-Ball Weld Load	ASTM D2596	kgf	420
Four-Ball Wear Test, Wear Scar	ASTM D2266	mm	0.50 typical
Operating Temperature Range		°C	-30°C to 160°C

*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*

## Product Data

Stock No. Z-10 / Z-10.1 / Z-10.3

Packages: 400 g Pull-Off Cartridge / 18 kg Keg / 180 kg Drum

24 Cartridges per Box

50 Boxes per Pallet / 33 Kegs per Pallet / 4 Drums per Pallet

Barcode Cartridge / Box: 4752134000376 / 4752134000451

Barcode 18 kg Keg / 180 kg Drum: 4752134000369 / 4752134000352

Shelf Life: 5+ years (from date of manufacture)