



**ZAP GREASE**  
**MULTI**

### Description

ZAP Grease MULTI is a lithium-calcium soap thickened lubricating grease based on a severely hydro-treated mineral base oil with low pour point. A unique mixed soap structure ensures an outstanding water resistance performance.

### Application

ZAP Grease MULTI is a multi-purpose grease for automotive and industrial applications, where water and dust contamination are significant. It is a cost effective lubrication solution for heavy duty transport, agricultural, off-road and construction equipment or vehicles. Use it for mining equipment lubrication working on extraction of sand and stones or earth surface excavations, where the water is present in abundance.

ZAP Grease MULTI is intended for lubrication of plain and rolling bearings operated under moderate loads in high humidity environment. Operating temperature range:  $-30^{\circ}\text{C}$  to  $110^{\circ}\text{C}$ .

### Product Data

Stock No. Z-11 / Z-11.1 / Z-11.3  
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: 4752134000383 / 4752134000468  
Barcode 18 kg Keg / 180 kg Drum: 4752134000390 / 4752134000406  
Shelf Life: 5+ years (from date of manufacture)

### Technical Data

Characteristics	Test Method	Unit	Typical Value
NLGI grade	ASTM D 217	-	2
Thickener		-	Lithium-Calcium
Base Oil Viscosity at $40^{\circ}\text{C}$		$\text{mm}^2/\text{s}$	100
Colour	Visual	-	Red
Appearance	Visual	-	Smooth, Homogenous
Cone Penetration, Worked	ISO 2137	1/10 mm	265 - 295
Dropping Point	ISO 2176	$^{\circ}\text{C}$	175
Corrosive Effects on Copper	ASTM D4048	Rated	max 1 (3h at $100^{\circ}\text{C}$ )
Water Resistance Test	DIN 51 807-1	Rated	0-90
Water Washout Test	ISO 11009	-	< 10% ( $80^{\circ}\text{C}$ , wt.% loss)
Operating Temperature Range		$^{\circ}\text{C}$	$-30^{\circ}\text{C}$ to $110^{\circ}\text{C}$

*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*

### Performance Features

- Very Good Water Resistance**  
Formulated to offer high level of resistance to water wash-out. The grease provides protection of bearing surfaces even when it gets slightly contaminated with water
- Excellent Lubricity and Wear Protection**  
Formulated to protect metal surfaces against wear and corrosion.
- Low Temperature Performance**  
Reliable lubrication and good pump-ability at low temperatures down to  $-30^{\circ}\text{C}$
- Good Mechanical Stability**  
Ensures that the grease stays in place and doesn't liquefy within the given temperature limits
- Wide Range of Applications**  
A truly universal and cost effective Grease

### Technical Specifications

ISO 6743-9: ISO-L-XCBHA 2  
DIN 51 502: G2G-30