



ZAP GREASE
EXTREME
VG 460

Description

ZAP Grease EXTREME is a high performance heavy duty lubricating grease based on a calcium sulfonate complex thickener system and a severely hydro-treated, high viscosity mineral base oil.

A unique structure of calcium sulfonate complex thickener provides very high dropping point, extraordinary built-in extreme pressure and anti-wear performance, excellent mechanical stability, good rust protection and superior water wash out / water spray off resistance. This makes it a truly multipurpose grease suitable for a wide range of marine, industrial and automotive applications.

Application

ZAP Grease EXTREME is specially developed for the lubrication in the most severe conditions: under extremely high and shock loads, very high temperatures and in dirty and wet environments.

It is suitable for heavy duty industrial equipment used in: mining/quarrying, pellet production (hardwood & softwood pelleting), cement, heavily loaded bearings in steel industry, paper production and other industrial applications. Perfectly adapted to the lubrication of heavy duty equipment in off-road applications including: agriculture and forestry, logging, mining, construction equipment, as well as heavy duty automotive applications.

It is also suitable for use in marine and off-shore applications and for general lubrication of axles, ball joints, universal joints, couplings and bushings.

Operating temperature range:
from -25 to 180°C
(temporary up to 210°C).

Performance Features

- **Inherent Extreme Pressure properties**
The highest level of extreme pressure properties delivered by thickener itself to withstand heavy and shock loads without failure of the lubricant film. Extends equipment and moving component life under shock-loaded and vibration conditions.
- **Exceptional Water resistance**
The highest level of resistance to water wash-out and spray-off. Resistant to sea water.
- **Excellent Mechanical Stability**
Resistant to softening and leakage under the highest loads. Mechanical stability kept in the presence of water.
- **Excellent Thermal Stability**
Does not liquefy until >305°C.
- **High Dropping Point**
Temperature operating range up to 180°C (temporary up to 210°C) and good low temperature performance.
- **Rust and Corrosion Protection**
Protects metal parts from rust and corrosion. Extends equipment life.
- **Wide Range of Applications**
A truly multipurpose grease.

Technical Specifications

ISO 6743-9: ISO-L-XBFHB 1/2
DIN 51 502: KP1/5R-25





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Technical Data

Characteristics	Test Method	Unit	Typical Value
NLGI grade	ASTM D 217	-	1-2
Thickener		-	Calcium Sulfonate Complex
Base Oil Viscosity at 40°C		mm ² /s	460
Colour	Visual	-	Brown
Appearance	Visual	-	Smooth, Homogenous
Cone Penetration, Worked	ISO 2137	1/10 mm	280-310
Change in consistency	ISO 2137	0,1 mm	<10 (after 10000 cycles)
Operating Temperature Range		°C	-25 - 180
Dropping Point	ISO 6299	°C	>305
Low Temp. Flow Pressure	DIN 51 805	Mbar	Max 1400 at -25°C
Oil Separation, 42h at 40°C, wt%	IP 121		0,5% typical
Dynamic Rust Test, EMCOR	ISO 11007	Rated	0-0 Distilled Water
Water Resistance Test	DIN 51807-1	Rated	1-90 (3 hrs at 90°C)
Water Washout Test	DIN 11009		1% typical (79°C, wt.% loss)
Four-Ball Weld Load	ASTM D2596	kgf	525
Four-Ball Wear Test, Wear Scar	ASTM D2266	mm	0,45 typical

Above characteristics are mean values given as an information.

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

Product Data

Stock No. Z-4 / Z-4.1 / Z-4.3

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

24 Cartridges per Box

50 Boxes per Pallet / 22 Kegs per Pallet / 4 Drums per Pallet

Barcode Cartridge / Box: 4752134000079 / 4752134000086

Barcode 18 kg Keg / 180 kg Drum: 4752134000093 / 4752134000109

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