



# Marfak XD

## Proven performance extreme pressure calcium grease

(Previously known as Novatex Heavy EP series)

### Product description

Marfak XD are a series of proven performance water resistant extreme pressure calcium thickened greases, designed to offer good rust and corrosion resistance and load carrying capacity.

Marfak XD series are formulated with a high viscosity mineral base oil and fortified with polymers, antioxidants, corrosion inhibitors and EP/AW additives. The thickener, in combination with the semi-synthetic base stock blend, makes the series suitable for the lubrication of heavily loaded bearings and in wet and corrosive environments.

NLGI grades in the Marfak XD range are:

NLGI Grade:	Name:	Previously known as:
0	Marfak XD 0	Novatex Heavy EP 0
2	Marfak XD 2	Novatex Heavy EP 2

### Customer benefits

- Offers good rust and oxidation protection in heavily loading bearings.
- Designed to protect components against water ingress.
- Formulated for applications where a high load carrying capacity is required.
- Designed for advanced adhesion and water resistance

### Product highlights

- Offer good rust and oxidation protection.
- Designed for advanced water resistance.
- Formulated high load carrying applications.

Selected specification standards include:

DIN

ISO

### Applications

- Marfak XD series has been especially developed for marine applications and as a universal grease for forestry, agricultural and construction vehicles.
- Marfak XD series is recommended for the lubrication of heavily loaded plain- and roller bearings at normal temperatures and limited speeds also e.g. lubricating water pumps, chassis, etc.
- Marfak XD series are also recommended for the lubrication of propeller shafts of outboard engines and bridge parts under water. They are also suited for applications where extreme water resistance is required.
- Marfak XD series are used in centralised lube systems on backhoe dredger as a multipurpose grease for the centralised lube system on Komatsu excavators.
- In order to pump the grease through a centralized lubrication system, during the summer Marfak XD 2 is used, during the winter period Marfak XD 0 is used.

### Product maintenance and handling

Maintaining a clean work environment is critical when equipment greasing is performed. Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing housings should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat build-up can result. Periodic relubrication via grease gun or centralized system should be supplemented by complete cleaning and packing with fresh grease on an appropriate schedule.

### Approvals, performance and suitable for use

#### Performance

	DIN 51 502: 1990-08	ISO 6743-09	Operating temperature
<b>Marfak XD 0</b>	KP 0K-40	ISO-L-XD(F)CIBO	-40°C up to 120°C (max 130°C)
<b>Marfak XD 2</b>	KP 2K-30	ISO-L-XC(F)CIB2	-30°C up to 120°C (max 130°C)

Typical test data			
Test	Test Method	NLGI 0	NLGI 2
<b>Typical Shelf Life: 36 months from date of filling indicated on the product label</b>			
Appearance	Visual	Yellow-brown	Yellow-brown
NLGI grade	ASTM D217 mod	0	2
Penetration worked, mm/10	ISO 2137	355 - 385	265 - 295
Thickener type		Calcium Anhydrous	Calcium Anhydrous
Texture		Tacky	Smooth
Base oil type		Semi-Synthetic	Semi-Synthetic
Base oil viscosity at 40°C, mm <sup>2</sup> /s (base oil mix+polymers)	ASTM D445	1370	1370
Dropping Point, °C	IP 396	>120	>140
Water resistance static	DIN 51 807	0/90	0/90
Copper Corrosion, 24h/100°C	ASTM D4048	1B	1B
Four ball Weld load, N	DIN 51530/4	3200	3200
Four ball wear, scar, diameter, mm	DIN 51350/5	0.5	0.45
Emcor corrosion test distilled water	DIN 51 802	0/0	0/0
Emcor corrosion test	SS-SIS15 5130	0/0	0/0

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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