



# Marfak XD 2 M2

## Proven performance water resistant extreme pressure calcium grease

(Previously known as Novatex Heavy M EP 2)

### Product description

Marfak XD 2 M2 is a proven performance water resistant extreme pressure calcium thickened semi-synthetic grease, recommended for the lubrication of heavily loaded plain- and roller bearings at normal temperatures and limited speeds, in wet and corrosive environments.

Marfak XD 2 M2 is formulated with a high viscosity semi-synthetic base oil plus 1% graphite and 2% MoS<sub>2</sub>, and is fortified with polymers, antioxidants, corrosion inhibitors and EP/AW additives.

It is available in the following solid, additive free grades:

<b>NLGI Grade:</b>	<b>Name:</b>	<b>Previously known as:</b>
0	Marfak XD 0	Novatex Heavy EP 0
2	Marfak XD 2	Novatex Heavy EP 2

### Customer benefits

- Designed to help provide effective rust and oxidation protection.
- Formulated to offer good water resistance.
- Advanced additive package designed to provide load carrying capacity.

### Product highlights

- **Designed for effective rust and oxidation protection.**
- **Formulated for good water resistance.**
- **Advanced EP additive package.**

#### Selected specification standards include:

DIN	ISO
Komatsu	

### Applications

Marfak XD 2 M 2 is specifically developed for marine applications and serves as a universal grease for forestry, agricultural, and construction vehicles. The product is also suitable for industrial applications where water washout and corrosion are problematic. The inclusion of MoS2 and graphite provides extra protection in applications with slow-moving or oscillating bearings.

However, lubricating greases containing MoS2 or graphite are not suitable for high-speed rolling bearings.

Marfak XD 2 M 2 is used in centralized lube systems on backhoe dredger as a multipurpose grease for the centralized lube system on Komatsu excavators.

### 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	ISO 6743-09	Operating temperature
<b>Marfak XD 2 M2</b>	KPF 2 K-30	ISO-L-XC(F)CIB2	-30°C up to 120°C (max 130°C)

#### Suitable for use

Marfak XD 2 M 2 is used in centralized lube systems on backhoe dredger as a multipurpose grease for the centralized lube system on Komatsu excavators and similar applications.

Typical test data		
Test	Test Methods	Results
<b>Typical Shelf Life: 36 months from date of filling indicated on the product label</b>		
Appearance	Visual	Black-Grey
NLGI grade	ASTM D217 mod	2
Penetration worked, mm/10	ISO 2137	265 – 295
Thickener type		Calcium Anhydrous
Base oil type		Semi-Synthetic
Base oil viscosity at 40°C, mm <sup>2</sup> /s (base oil mix + polymers)	ASTM D445	1300
Dropping Point, °C	IP 396	>120
Water resistance static	DIN 51 807	0/90
Copper Corrosion, 24h/100°C	ASTM D4048	1B
Four ball Weld load, N	DIN 51530/4	3400
Four ball wear, scar, diameter, mm	DIN 51350/5	0.77
Emcor corrosion test distilled water	DIN 51 802	0/0
Emcor corrosion test	SS-SIS15 5130	0/0
Molybdenum content, %		2
Graphite content, %		1

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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