



Multifak EP

High performance multi-purpose EP grease

Product description

Multifak EP greases are multipurpose extreme pressure greases designed to offer improved mechanical stability and load carrying capacity with good corrosion protection, making it suitable for use in loaded bearings and within given temperature limits in both wet and dry conditions and in a variety of applications.

Multifak EP greases are formulated with highly refined mineral base oils, lithium thickener, EP additives and rust and oxidation inhibitors.

Multifak EP 2, if no automotive approvals are required, can be replaced by Marfak EP 2.

Customer benefits

- Formulated to provide efficient mechanical stability in a range of operating conditions.
- Designed to offer EP protection to bearings in load carrying applications.
- Offers good corrosion protection in wet environments.
- Versatile formula suitable for a wide range of automotive applications.
- Multifak EP 2 carries a range of key automotive OEM approvals.

Product highlights

- **Formulated to provide mechanical stability in a range of conditions.**
- **Designed to offer EP protection to load carrying bearings.**
- **Offers good corrosion protection in wet environments.**
- **Suitable for a wide range of automotive applications.**

Selected specification standards include:

Cincinnati Milacron	Daimler Truck
DIN	GROB
ISO	MAN
Mercedes Benz	Nato
NLGI	SMS Group
Timken	Volvo

Applications

Multifak EP greases have high load-carrying capacity and, therefore, provide good protection of lubricated parts against wear. They provide advanced lubrication in the presence of water, protect bearing surfaces against corrosion, and have good resistance to oxidation, which supports long life in storage and in use.

Multifak EP greases are work stable. They resist separation or throw out from antifriction bearings. They have low oil bleeding tendency under pressure and are pumpable at low temperatures.

Multifak EP greases are suitable for use in typical centralized lubrication systems. They can satisfy a wide range of industrial and marine grease applications.

Typical applications include:

- General Machinery - plain, antifriction, roller, and needle bearings
- Construction equipment
- Conveyors and run out rolls
- Crusher, shaker, or classifier screen bearings
- Chassis lubrication
- Deck equipment

Multifak EP greases are recommended for both plain and antifriction bearings and particularly for bearings subjected to shock loading.

Multifak EP 2 is also designed for use in multi-purpose automotive applications in commercial vehicles and passenger cars, where automotive OEM approvals are required.

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. Old grease should be flushed as much as possible out of the system before applying new grease in order to avoid compatibility problems.

Avoid Any spillage of used and unused product to the environment.

Product residue and package/container should be disposed of in dedicated collection points.

Approvals, performance and suitable for use

Approvals

Multifak EP 2 carries the following approvals:

- | | |
|-------------------------|---------------------|
| • MAN | 283 Li-P |
| • Mercedes Benz | 267.0 |
| • Daimler Truck | DTFR 33B120 |
| • Volvo | 97718 |
| • Nato | G-414 |
| • Cincinatti Milacron | P-64 |
| • NLGI LB certification | (NLGI 1 and NLGI 2) |

Multifak EP — Continued

Performance

	DIN 51 502	ISO 6743-09	Operating temperature
MULTIFAK EP 0	GP 0 K-30/KP 0K-30	ISO-L-XCCEB 0	-30 up to 120°C with short periods up to 140°C
MULTIFAK EP 1	KP 1 K-30	ISO-L-XCCEB 1	
MULTIFAK EP 2	KP 2 K-30	ISO-L-XCCEB 2	

Multifak EP 1 & 2: comply with Timken's recommendation for both plain and antifriction bearings and particularly for bearings subjected to shock loading.

Multifak 0 EP 0 & 2: listed by SMS group SN 180-1

Multifak EP 2: listed by GROB.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

Typical test data

Test	Test Methods	Results		
Typical Shelf Life: 36 months from date of filling indicated on the product label				
NLGI grade	DIN 51 818	0	1	2
Thickener type	DIN 51 814	Lithium	Lithium	Lithium
Dropping Point, °C	ISO 2176	>200	>200	>200
Oil type		Mineral	Mineral	Mineral
Base oil viscosity at 40°C, mm ² /s	DIN 51 562	200	200	200
Penetration worked, 0.1 mm	ISO 2137	355-385	310-340	265-295
Copper Corrosion 48h/120°C	DIN 51 811	1	1	1
Emcor corrosion distilled water	ISO 11007	0/0	0/0	0/0
Water resistance static	DIN 51 807/1	1-90	1-90	1-90
Four Ball weld load,N	DIN 51 350/4	2600	2600	2600
Four Ball wear scar, 1min/1000N, mm	DIN 51 350/5	0.5	0.5	0.5

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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When disposing of used product, take care to protect the environment and follow local legislation.

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