

MasterRoc[®] EPB II

Multi-Purpose EP2 Grease for Tunnel Boring Machines

Description

MasterRoc EPB II grease is a multi-purpose EP2-grade grease designed for main bearing lubrication, as a screw conveyor drive assembly grease and as a rotary swivel grease. It is a lithium-thickened lubricating grease that contains antioxidants, corrosion inhibitors and EP/AW additives.

Applications

Recommended for use in:

- TBM main bearing
- TBM screw conveyor drive assembly
- TBM rotary swivel grease

Features

- Good mechanical stability, load-carrying capacity and corrosion protection

Benefits

- High quality, multi-purpose
- Suitable for a wide range of plain and rolling bearings
- Suitable for loaded bearings, as well as wet environments
- Approved according to "MAN 283 Li-P" and "Mercedes-Benz 267.0"

Performance Characteristics

Technical Data

Typical Values

Form	Homogeneous paste
Color	Yellowish-brown
NLGI Grade	2
Density at 68 °F (20 °C)	Approx. 60 lb/ft ³ (950 kg/m ³)
Consistency ISO 2137 [1/10 mm]	265-295
4-ball wear DIN 51350:5 [mm]	0.5
Base oil viscosity (40 °C) ISO 12058	200 mm ² /s
Base oil viscosity (100 °C) ISO 12058	15 mm ² /s
Temperature range	-22 to 248 °F (-30 to 120 °C)
4 ball weld load DIN 51350:4	2600 N
Lubricating Ability SKF R2F test A + B	Pass
Water resistance DIN 51807/1	0-90
Flash point (base oil)	>302 °F (> 150 °C)



Storage and Handling

Storage Temperature: MasterRoc EPB II grease should be stored in unopened, original drums, preferably at 41 °F to 95 °F (5 to 35 °C). Shelf life is expected to be 12 months minimum.

Safety: MasterRoc EPB II grease poses no threat to worker safety or the environment. However, it is recommended that all normal precautions be taken when handling the product, such as the use of eye protection and gloves.

Packaging

MasterRoc EPB II grease is packaged in standard 397 lb (180 kg) and 110 lb (50 kg) steel drums.

Additional Information

For additional information on EPB II grease, contact your local sales representative.

Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

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