

# MasterRoc<sup>®</sup> BSG 11

Main Bearing Sealing Grease (Excluder Grease) for Tunnel Boring Machines (TBM)

## Material Description

**MasterRoc<sup>®</sup> BSG 11** is an excluder grease for tunnel boring machines. It effectively protects the main bearing and prevents soil, water or dust ingress into the main bearing sealing. It is formulated to resist high water and ground pressures, and has excellent lubrication and pumping properties as well as excellent adhesion to all surfaces.

## Characteristics and Benefits

- Excellent sealing and anti-washout properties
- Excellent adhesion to any metal or concrete surfaces
- Excellent pumping and lubricating properties especially at very low or very high temperatures
- 'Biogrease': entirely based on renewable and natural raw materials

## Packaging

**MasterRoc<sup>®</sup> BSG 11** is available in standard 230 kg or 60 kg steel drums for press plate pumps

## Storage and Shelf Life

MasterRoc<sup>®</sup> BSG 11 should be stored at 5 - 35°C. If stored in original tightly closed containers it has a shelf life of 12 months.

## Safety Precautions

MasterRoc<sup>®</sup> BSG 11 is not hazardous and 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.

## Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and

Technical Properties	
Form	Homogenous paste, fibrous
Color	Black
Specific Gravity (20°C)	1150 ± 50 kg/cm <sup>2</sup>
Odor	None
Consistency ISO 2137 [1/10 mm]	250 - 280
4-Ball Wear DIN 51350:5 [mm]	< 0.9
Water Wash out (38°C) ISO 11009 [%]	< 6
Water Spray off (38°C) ASTM D4049 [%]	< 4
Water Resistance DIN 51807/1	0 - 0
Sealing Elastomer Compatibility	Approved by Merkel & J. Walker
Flash Point (base oil)	> 290°C
Biodegradation	Inert

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dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

## Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

## Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.  
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A  
No:26/8 Sancaktepe, İstanbul  
Tel: 0216 561 35 45 [www.mbt-tech.tr](http://www.mbt-tech.tr)  
[master-builders-solutions.com/en-tr](http://master-builders-solutions.com/en-tr)