

# MasterRoc® BSG 1

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

### DESCRIPTION

**MasterRoc BSG 1** 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, has excellent lubrication and pumping properties as well as adhesion to all surfaces. It is highly biodegradable and based on renewable raw materials.

### FEATURES AND BENEFITS

- Excellent sealing and anti-washout properties
- Excellent adhesion to any metal or concrete surfaces
- Excellent pumping and lubricating properties
- 'Bio-grease': entirely based on renewable and natural raw materials

### PACKAGING

**MasterRoc BSG 1** is available in standard 230 kg or 60 kg steel drums for press plate pumps.

### STORAGE

**MasterRoc BSG 1** should be stored at 5 - 35°C. If stored in original tightly closed containers it has a shelf life of 12 months.

### TECHNICAL DATA\*

<b>Form</b>	Homogenous paste, fibrous
<b>Color</b>	Black
<b>Odor</b>	None
<b>Density [kg/m³] 20°C</b>	1200 ± 50
<b>Consistency</b> ISO 2137 [1/10 mm]	250- 280
<b>4-ball wear</b> DIN 51350:5 [mm]	< 0.9
<b>Water wash out (38°C)</b> ISO 11009 [%]	< 5
<b>Water spray off (38°C)</b> ASTM D4049 [%]	< 7
<b>Water resistance</b> DIN 51807/1	0
<b>Sealing elastomer compatibility</b>	Approved by Merkel & J. Walker
<b>Flash point (base oil)</b>	> 285°C
<b>Biodegradation (base oil)</b> CEC-L-33-A-93	> 90%

The recommended minimum service temperature is +10°C.

### SAFETY PRECAUTIONS

**MasterRoc BSG 1** is not hazardous. It is ecologically and environmentally friendly 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.

\* Properties listed are based on laboratory controlled tests.

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