Cast Basalt Wear Resistant Material

Your Specialist in Wear Resistant Linings
Cast Basalt Wear Resistant Material

Multotec Cast Basalt is supplied in pipe and tile form and provides an extremely hard wearing surface for abrasive or corrosive materials.

- Corrosion resistant
- Cost-effective
- Versatile shapes
- Easily installed
- Extreme hardness
- Polishes to smooth glassy surface
- Can be slip cast to any shape
- Design consulting available

What is Cast Basalt?
Naturally occurring Basalt rock is quarried, melted, cast and annealed to form a finely crystallised glass ceramic of extreme hardness (8.5 on the Moh scale).

What is it For?
Basalt provides a long-lasting lining for static plants, over which large volumes or abrasive and/or corrosive materials are passed.

How is it Fixed?
Basalt tiles can be bedded and jointed in cement or special bonding agents. The agents chosen depend on the application. Tiles can be supplied with a countersunk central hole for individual bolting onto or in ready-made liner plates and pipes.

Where is it Used?
Cast Basalt is best suited for wet material handling applications, such as coal chutes, ash sluiceways, ash pipelines at power stations, and hydraulic granulated slag or sand conveying systems. Basalt can resist wear corrosion and temperatures up to approximately 400 degrees, and should be used in light impact areas. If you are in doubt, let our sales engineer advise you on an impact friendly design.

<table>
<thead>
<tr>
<th>Basalt</th>
<th>Part No.</th>
<th>Tiles Kg/Tile</th>
<th>Tiles/m²</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BT1</td>
<td>200 x 100 x 30</td>
<td>1.8</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>BT2</td>
<td>200 x 200 x 30</td>
<td>3.6</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>BT3</td>
<td>200 x 200 x 60</td>
<td>7.2</td>
<td>25</td>
</tr>
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<td></td>
<td>BT4</td>
<td>200 x 200 x 20</td>
<td>4.8</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>BT2CSK</td>
<td>200 x 200 x 30</td>
<td>3.6</td>
<td>25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pipe Liners</th>
<th>Length of section</th>
<th>Bore (I.D.) mm</th>
<th>Wall Thickness mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All 500mm long</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>75</td>
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<td></td>
</tr>
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</tr>
<tr>
<td></td>
<td>450</td>
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</tbody>
</table>

**Technical Data**

- Specific gravity: 2.9 – 3.0
- Compressive strength: 540 MPa
- Tensile strength: 35 MPa
- Bending strength: 45 MPa
- Hardness: 8.5 Moh scale
- Dielectric strength: 4 Kva/mm
- Coefficient of friction (basalt to mild steel): 0.245 unpolished, 0.215 after use has polished surface

Multotec products are subject to continuous development and Multotec reserves the right to make changes to the specifications and design of their products without prior notification.

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### Australia Brisbane
Tel: +61 (7) 3200 8777  
Fax: +61 (7) 3200 7733  
E-mail: australia@multotec.com

### Australia Perth
Tel: +61 (8) 9406 3500  
Fax: +61 (8) 9302 1732  
E-mail: sales@multotec.com

### Botswana
Tel: +267 290 2846  
E-mail: botswana@multotec.com

### Ghana
Tel: +233 302 517 821  
E-mail: ghana@multotec.com

### Mozambique
Tel: +267 (7) 290 2846  
E-mail: mozambique@multotec.com

### South Africa
Tel: +27 (11) 923 6285  
Fax: +27 (11) 394 8701, 394 5099  
E-mail: marketing@multotec.com

### Zambia
Tel: +260 212 313 354  
Fax: +260 212 312 422  
E-mail: zambia@multotec.com

### Zimbabwe
Tel: +263 (4) 79 6201  
Fax: +263 (4) 79 6202  
E-mail: zimbabwe@multotec.com

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