Applications

- METACAST-50 is a conventional castable having hydraulic setting/ceramic bonded with alumina content of approximately 50%, which is designed to be used for high temperatures, in excess of 1400°C.
- It is used for reheating furnace wall casting and other general purpose casting.

General characteristics

Chemical composition

Main constituents (%)
Al₂O₃ - 50% min, Fe₂O₃ - 1.5 % max, CaO - 4 to 5%

Physical properties

<table>
<thead>
<tr>
<th>Grain Size</th>
<th>Bulk Density</th>
<th>Cold Crushing Strength</th>
<th>Setting</th>
<th>Service Temperature</th>
<th>Water Requirement</th>
<th>PCE Value</th>
<th>PLC Briquette size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5mm</td>
<td>2.4-2.45 gm/cc</td>
<td>At 110°C/24 hrs. 250kg/cm² min.</td>
<td>Hydraulic setting/Ceramic bonding</td>
<td>1400°C to 1500°C</td>
<td>10-12%</td>
<td>ORTON 33 min.</td>
<td>At 1400°C/2hrs± 1%</td>
</tr>
</tbody>
</table>

Packaging

METACAST-50 does not contain any additives. METACAST-50 packaging is designed to protect it from moisture. However, it is recommended that METACAST-50 not be placed in direct contact with the ground. When correctly stored, the shelf life of METACAST-50 is at least 6 months. In most cases, its properties are retained for over a year.

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