Product data sheet

Refractory applications – Conventional Castables

METACAST-90

Applications

- METACAST-90 is a conventional castable having a hydraulic setting/ceramic bonded with alumina content of approximately 90%, which is designed to be used at very high temperatures, in excess of 1600°C.
- It is used for patching/hot patching/general casting in steel ladle and furnace.

General characteristics

Chemical composition

Main constituents (%)
Al₂O₃- 90% min, Fe₂O₃- 0.5 % 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>2.8-2.85 gm/cc</td>
<td>At 110°C/24 hrs. 600kg/cm² min.</td>
<td>Hydraulic setting/ Ceramic bonding</td>
<td>1600°C to 1750°C</td>
<td>10-12%</td>
<td>ORTON 37 min.</td>
<td>25 X 25 X100 10 %moisture dried at 110°C</td>
</tr>
</tbody>
</table>

Packaging

METACAST-90 does not contain any additives. METACAST-90 packaging is designed to protect it from moisture. However, it is recommended that METACAST-90 not be placed in direct contact with the ground. When correctly stored, the shelf life of METACAST-90 is at least 6 months. In most cases, its properties are retained for over a year.

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