METACAST-LC 90

Applications

- METACAST LC90 is a hydraulic setting/ceramic bonded low cement castable (LCC) with alumina content of approximately 90%, which is used at high temperatures, in excess of 1700°C.
- It is used in Electric Arc Furnace roof and wall casting.

General characteristics

Chemical composition

Main constituents (%)
\[ \text{Al}_2\text{O}_3 - 90\% \text{ min} \]
\[ \text{Fe}_2\text{O}_3 - 0.5\% \text{ max.} \]
\[ \text{CaO} - 1.5\% \text{ max.} \]

Physical properties

<table>
<thead>
<tr>
<th>Grain Size</th>
<th>Bulk Density</th>
<th>HMR (Hot Modulus of Rupture)</th>
<th>Cold Crushing Strength Kg/cm²</th>
<th>Setting</th>
<th>Service Temperature</th>
<th>Water Addition</th>
<th>PCE Value</th>
<th>PLC Briquette size 25 X 25 X100 8% moisture dried at 110°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5mm</td>
<td>2.85gm/cc</td>
<td>At 1400°C 70Kg/cm² min.</td>
<td>At 110°C/24hrs-700min 900°C/24hrs-800min 1300°C/24hrs-1200min</td>
<td>Hydraulic setting/Ceramic Bonding</td>
<td>1700°C-1850°C</td>
<td>4-6%</td>
<td>ORTON 36 min.</td>
<td>At 1500°C/2hrs≤0.3%</td>
</tr>
</tbody>
</table>

Packaging

METACAST LC90 does not contain any additives. METACAST LC90 packaging is designed to protect it from moisture. However, it is recommended that METACAST LC90 not be placed in direct contact with the ground. When correctly stored, the shelf life of METACAST LC90 is at least 6 months. In most cases, its properties are retained for over a year.

Metaflux warrants that the products comply with the specifications stated herein to the exclusion of any other warranty, express or implied. Metaflux makes no representation or warranty of any kind, either express or implied, as to the merchantability or fitness for a particular purpose or use of the products. The warranty shall be limited to the replacement of the non-conforming products or, at Metaflux option, the refund of the purchase price. Any technical advice, recommendations or information are given based on Metaflux current knowledge and experience of the products and are deemed to be accurate. However, Metaflux undertakes no liability or responsibility of any kind in respect thereof. Users are invited to check that they have the latest version of this document.

METAFLUX COMPANY PRIVATE LIMITED
162, VIP Road, Kolkata-700054
Tel. No. + 91-33-2355-5799/0544/6252, Fax No. +91-33-2355-7636
e-mail id: metaflux@vsnl.com, website: www.metafluxco.com