Plico Refractories
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Technical Data Sheet

Exo-Set UNO A G

Product Number  17445  Date  2/10/2014

Product Description
An one component, rapid hardening, chemically bonded, high purity alumina based refractory gun mix. Exhibits excellent bonding adherence to old refractory. May be gunned hot or cold. Do not predampen. Non wetting to aluminum.

Typical Applications
As a primary lining or for maintenance repairs of metal contact areas in aluminum melting and holding furnaces, ladles, troughs and launders. Excellent resistance to aggressive, high magnesium aluminum alloys.

Service limit -  2500°F  1371 °C
Std. package   55 # / 25 kg  Bag
Density to place  165 pcf  2,643 kg/m³
Water range per std. package:
Density in service  165 pcf  2,643 kg/m³
Casting  to  qts  0.0 to  0.0 l
Min time before firing  none
Pumping  to  qts  0.0 to  0.0 l

Chemistry % (calcined)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Al₂O₃</td>
<td>81.7</td>
</tr>
<tr>
<td>P₂O₅</td>
<td>4.9</td>
</tr>
<tr>
<td>SiO₂</td>
<td>4.9</td>
</tr>
<tr>
<td>Other</td>
<td>8.4</td>
</tr>
</tbody>
</table>

Thermal Conductivity

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Linear Change</th>
<th>Cold MOR</th>
<th>CCS</th>
<th>Hot MOR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>per ASTM C113 / C179</td>
<td>per ASTM C113</td>
<td>per ASTM C113</td>
<td>per ASTM C583</td>
</tr>
<tr>
<td>230 F / 110 C</td>
<td>-0.1%</td>
<td>900</td>
<td>3500</td>
<td>24</td>
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<tr>
<td>1500 F / 815 C</td>
<td>-0.3%</td>
<td>900</td>
<td>2000</td>
<td>14</td>
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<tr>
<td>2000 F / 1090 C</td>
<td>-0.5%</td>
<td>1600</td>
<td>11.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Other Data

Heat Up Guide
Schedule D

ASTM Class

Note:
All data are averaged results of ASTM tests (where applicable) on laboratory gunned specimens. Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product / raw material / process / testing changes. Please consult your Plico representative to make sure you have the most current data.

Plico Refractories are manufactured by Plibrico Company LLC, USA.