Snow Shoe Refractories, LLC
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Snow Shoe, PA  16874
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Product Data

Scope:
A 70% high alumina brick made with high quality mullite material. Its mullitic formulation makes it resistant to carbon monoxide disintegration. It has good hot properties and resistance to alkali attack. It will find use in a variety of iron, steel, and industrial applications.

PCE:  >37

<table>
<thead>
<tr>
<th>Chemical Analysis (Wt.% - Calcined Basis)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂</td>
</tr>
<tr>
<td>Al₂O₃</td>
</tr>
<tr>
<td>TiO₂</td>
</tr>
<tr>
<td>Fe₂O₃</td>
</tr>
<tr>
<td>CaO</td>
</tr>
<tr>
<td>MgO</td>
</tr>
<tr>
<td>Alkalies</td>
</tr>
<tr>
<td>P₅O₅</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>English Units</th>
<th>Standard Deviation</th>
<th>SI Units</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Average (lbs/ft³)</td>
<td></td>
<td>Average (kg/m³)</td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>164</td>
<td>2</td>
<td>2630</td>
<td>30</td>
</tr>
<tr>
<td>Apparent Porosity (%)</td>
<td>14.8</td>
<td>1.3</td>
<td>14.8</td>
<td>1.3</td>
</tr>
<tr>
<td>Modulus of Rupture at 68°F (20°C)</td>
<td>3170</td>
<td>730</td>
<td>21.9</td>
<td>5.0</td>
</tr>
<tr>
<td>Crushing Strength at 68°F (20°C)</td>
<td>15,500 - 19,500</td>
<td></td>
<td>107 - 135</td>
<td></td>
</tr>
<tr>
<td>Linear Change (%) after 2910°F reheat</td>
<td></td>
<td></td>
<td>-0.3</td>
<td></td>
</tr>
<tr>
<td>Hot Load Deformation (%) at 25 psi load</td>
<td></td>
<td></td>
<td>+/- 0.0</td>
<td></td>
</tr>
<tr>
<td>Hot Load Deformation (%) at 2640°F (1450°C)</td>
<td></td>
<td></td>
<td>- 0.4</td>
<td></td>
</tr>
<tr>
<td>CO Resistance</td>
<td></td>
<td></td>
<td>unaffected (500 hours)</td>
<td></td>
</tr>
</tbody>
</table>

The data given above are average results of our common sized products and are subject to variation. One standard deviation is given when adequate data is available. These results should not be used for specification purposes.