Brand Name: LW-25
Description: INSULATING FIRE BRICK

Physical properties shown are averages based on standard brick sizes. ASTM test methods used where applicable.

Maximum Service Temperature: 2500°F (1371°C)

**Bulk Density (pcf)**
As Received 45 (0.72 g/cm³)

**Modulus of Rupture (psi)**
At 70°F (21°C) 150 (10.6 kg/cm²)

**Cold Crushing Strength (psi)**
At 70°F (21°C) 260 (18.4 kg/cm²)

**Permanent Linear Change (%)**
After 2450°F (1343°C) -0.4

**Thermal Conductivity (K Factor)**

<table>
<thead>
<tr>
<th>Mean Temperature</th>
<th>BTU/ft²/hr./°F/inch</th>
<th>W/mK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000°F (537°C)</td>
<td>2.1</td>
<td>0.30</td>
</tr>
<tr>
<td>1500°F (815°C)</td>
<td>2.5</td>
<td>0.36</td>
</tr>
<tr>
<td>2000°F (1093°C)</td>
<td>2.8</td>
<td>0.40</td>
</tr>
</tbody>
</table>

**Typical Chemical Analysis (%)**
(Calcined Basis)

- Alumina (Al₂O₃) .................. 34.0
- Silica (SiO₂) .................. 63.0
- Iron Oxide (Fe₂O₃) ............... 0.7
- Titania (TiO₂) .................. 1.4
- Lime (CaO) .................. 0.3
- Magnesia (MgO) .................. 0.1
- Alkalis (Na₂O+K₂O) .............. 0.5

Brand Code: 4892

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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01/23/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

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