High Performance Ceramic Foam Kiln Furniture
from SELEE Corporation  (ISO 9001 certified)

- Handles virtually any thermal cycle
- Fast heat-up and cool-down shorten firing cycle and increase productivity
- Increased airflow reduces common thermal gradients
- Reduced surface area significantly reduces drag during part sintering
- Reduced weight increases kiln loading capacity
- Increase furnace yield by stacking low mass

SELEE Corporation offers Tylar® KF as the ultimate in low-mass, thermal shock resistant kiln furniture. The porous structure of Tylar® KF allows the material to keep its integrity through the fastest heat-up applications.

This material has superior mechanical and thermal characteristics, which makes it ideally suited for a variety of product and process improvement opportunities in the thermal processing industry.

Tylar® KF is available in a wide variety of compositions for use in the processing of electronic components, sintered metals, and advanced ceramics.

For information on how Tylar® KF can meet your special application needs, please contact SELEE Corporation.

- Low thermal mass
- Excellent thermal shock resistance
- Easily machinable
- Machined surface finish available
- Chemically inert
- High purity

SELEE Corporation
700 Shepherd Street
Hendersonville, NC 28792
Tel: (800) 842-3818 or +1 (828) 697-2411
Fax: (+1 828) 692-1868
www.selee.com
### Tylar® KF
#### Ceramic Foam Physical Property Data

<table>
<thead>
<tr>
<th>Product Designation</th>
<th>Product Composition</th>
<th>Color</th>
<th>Typical Use Temp. (°C)</th>
<th>Thermal Cycle Rating</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL</td>
<td>Al₂O₃</td>
<td>White</td>
<td>1500</td>
<td>2</td>
<td>Poor, Titanates, Powdered Metals, High Sintering Temp, Slow ramp rate, Use When No Reactivity Issues</td>
</tr>
<tr>
<td></td>
<td>99% +</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZTA</td>
<td>ZrO₂/Al₂O₃</td>
<td>White</td>
<td>1480</td>
<td>6</td>
<td>Good, Powdered Metals, Electrical Components, High Sintering Temp, Medium Ramp Rate, Use When No Reactivity Issues</td>
</tr>
<tr>
<td></td>
<td>10%/90</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YZA</td>
<td>Y₂O₃/CaO/ZrO₂/Al₂O₃</td>
<td>Tan/orange</td>
<td>1550</td>
<td>10</td>
<td>Very Good, Powdered Metals, Dielectrics, Zirconia, Fast Ramp Rate, May Work With Reactivity Issues or Test Reactivity</td>
</tr>
<tr>
<td></td>
<td>2.5%/2.5%/61%/34%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSZ 63</td>
<td>ZrO₂/MgO/CaO</td>
<td>Tan/orange</td>
<td>1600</td>
<td>8</td>
<td>Good, Titanates, Dielectrics, Zirconia, Medium to Fast Ramp Rate, Use When Reactivity may be an Issue</td>
</tr>
<tr>
<td></td>
<td>96%/1.5%/2.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSZ 01</td>
<td>ZrO₂/CaO</td>
<td>Yellow</td>
<td>1450</td>
<td>6</td>
<td>Good, Titanates, Zirconia, Dielectrics, Electrical Components, Medium Ramp Rate, High Sintering Temp, Use When Reactivity is an Issue, Very Low Alumina, High Purity Zirconia Blend</td>
</tr>
<tr>
<td></td>
<td>96.5%/3.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSZ 06</td>
<td>ZrO₂/MgO</td>
<td>Off-White</td>
<td>1650</td>
<td>4</td>
<td>Fair, Titanates, Zirconia, Low Ramp Rate, High Sintering Temp, Use When Reactivity may be an Issue</td>
</tr>
<tr>
<td></td>
<td>96.5%/3.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: All compositions contain less than 0.7% Si

**Contact:**

*Mark Heamon*

*Castshop and New Products Manager*

Cell: +1 (770) 329-5373

Email: mheamon@selee.com

BRC2011-02, Rev 2, Aug 1, 2013