Silcor® CS

Catalyst Sub-

Ceramic Foam Catalyst Substrate
From SELEE Corporation (ISO 9001 certified)

SELEE Corporation’s Silcor® CS, the latest innovation in catalyst substrate technology offering a combination of unique physical, thermal, and mechanical properties which can be custom engineered to meet the most challenging catalysis substrate applications.

Silcor® CS is used in a wide range of catalysis substrate applications and is available in a variety of ceramic compositions and pore sizes for all your demanding processing requirements.

- Excellent mass transfer provides high conversion efficiency
- High surface area to volume ratio
- Structure readily accepts wash coats and catalysis materials
- Uniform flow improves catalyst life
- High purity/Chemically inert ceramics
- Custom complex geometries available to meet any requirement

For more information on how Silcor® CS can benefit your process, please contact

Contact:
Mark Heamon
Market Manager-New Products
SELEE Corporation
700 Shepherd Street
Hendersonville, NC 28792
Tel: (828) 694-3469
Cell: (770) 329-5373
Email: mheamon@selee.com
# Silcor® CS

## Ceramic Foam Physical Property Data

<table>
<thead>
<tr>
<th>Product Designation</th>
<th>Product Composition</th>
<th>Color</th>
<th>Max Use Temp. (°C)</th>
<th>Thermal Cycle Rating*</th>
<th>Bulk Density @ 16% dense g/cc</th>
<th>Compressive Strength</th>
<th>Modulus of Rupture (MOR)</th>
<th>Thermal Expansion in/in°</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiC</td>
<td>SiC/SiO₂, 60%/40%</td>
<td>Gray</td>
<td>1200</td>
<td>7</td>
<td>0.45</td>
<td>343</td>
<td>2.4</td>
<td>258</td>
</tr>
<tr>
<td>AL</td>
<td>Al₂O₃, 99%</td>
<td>White</td>
<td>1550</td>
<td>2</td>
<td>0.60</td>
<td>732</td>
<td>6.0</td>
<td>528</td>
</tr>
<tr>
<td>ZTA</td>
<td>ZrO₂/Al₂O₃, 10%/90%</td>
<td>White</td>
<td>1550</td>
<td>6</td>
<td>0.62</td>
<td>1530</td>
<td>10.5</td>
<td>767</td>
</tr>
<tr>
<td>YZA</td>
<td>Y₂O₃/CaO/ZrO₂/Al₂O₃</td>
<td>Orange</td>
<td>1600</td>
<td>10</td>
<td>0.78</td>
<td>1901</td>
<td>13.7</td>
<td>552</td>
</tr>
<tr>
<td>PSZ 63</td>
<td>ZrO₂/CaO/MgO, 95%/5%</td>
<td>Lt Brown</td>
<td>1600</td>
<td>8</td>
<td>0.90</td>
<td>629</td>
<td>5.7</td>
<td>311</td>
</tr>
<tr>
<td>PRZ</td>
<td>Partially Stabilized ZrO₂/MgO, 95%</td>
<td>Beige</td>
<td>1700</td>
<td>6</td>
<td>0.86</td>
<td>2094</td>
<td>14.4</td>
<td>858</td>
</tr>
<tr>
<td>PSZ 06</td>
<td>Partially Stabilized ZrO₂/MgO, 95%</td>
<td>White</td>
<td>1700</td>
<td>4</td>
<td>0.86</td>
<td>2179</td>
<td>15.0</td>
<td>981</td>
</tr>
</tbody>
</table>

---

**SELEE Corporation**  
700 Shepherd Street  
Hendersonville, NC 28792  
Tel: (800) 842-3818  
+1 (828) 693-7785  
Fax: +1 (828) 693-1868  

www.selee.com