



# Tylar<sup>®</sup> KF

Kiln Furniture

## ***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<sup>®</sup> KF as the ultimate in low-mass, thermal shock resistant kiln furniture. The porous structure of Tylar<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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](http://www.selee.com)

# Tylar<sup>®</sup> KF

## Ceramic Foam Physical Property Data

Product Designation	Product Composition	Color	Typical Use Temp. (°C)	Thermal Cycle Rating	Applications
<b>AL</b> Sintered Alumina	Al <sub>2</sub> O <sub>3</sub> 99% +	White	1500	2 Poor	Titanates, Powdered Metals, High Sintering Temp, Slow ramp rate, Use When No Reactivity Issues
<b>ZTA</b> Zirconia Toughened Alumina	ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> 10%/90	White	1480	6 Good	Powdered Metals, Electrical Components, High Sintering Temp, Medium Ramp Rate, Use When No Reactivity Issues
<b>YZA</b> Yttria Stabilized Zirconia/Alumina	Y <sub>2</sub> O <sub>3</sub> /CaO/ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> 2.5%/2.5%/61%/34%	Tan/orange	1550	10 Very Good	Powdered Metals, Dielectrics, Electrical Components, Fast Ramp Rate, May Work With Reactivity Issues or Test Reactivity
<b>PSZ 63</b> Calcium/Magnesia Stabilized Zirconia	ZrO <sub>2</sub> /MgO/CaO 96%/1.5%/2.5%	Tan/orange	1600	8 Good	Titanates, Dielectrics, Zirconia, Medium to Fast Ramp Rate, Use When Reactivity may be an Issue
<b>PSZ 01</b> Calcium Stabilized Zirconia	ZrO <sub>2</sub> /CaO 96.5%/3.5%	Yellow	1450	6 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
<b>PSZ 06</b> Magnesia Stabilized Zirconia	ZrO <sub>2</sub> /MgO 96.5%/3.5%	Off-White	1650	4 Fair	Titanates, Zirconia, Low Ramp Rate, High Sintering Temp, Use When Reactivity may be an Issue

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