

## Grade: AD-Z95

**Manufacturer:** Graphtek LLC

**Description:** Chemical Composition: Zirconia (ZrO<sub>2</sub>) >95%; Silica (SiO<sub>2</sub>) <0.01%; Iron Oxide (Fe<sub>2</sub>O<sub>3</sub>) <0.01%; Sodium Oxide (Na<sub>2</sub>O) <0.005%; Calcium Peroxide (CaO<sub>2</sub>) 4 +/- 1%; Chlorides (CL-) <0.02%; Aluminum Oxide <0.1%

PROPERTY	US VALUE		METRIC VALUE	
<b>Density</b>	<b>0.217</b>	lb/in <sup>3</sup>	<b>6</b>	gr/cm <sup>3</sup>
<b>Porosity</b>	<b>0</b>	% VOL	<b>0</b>	% VOL
<b>Compress. Strength</b>	<b>377,098</b>	psi	<b>2600</b>	MPa
<b>Flex Strength</b>	<b>130,533</b>	psi	<b>900</b>	MPa
<b>Thermal Conductivity</b>	<b>1.16</b>	BTU/(h.ft <sup>2</sup> °F/ft)	<b>2</b>	W/(m <sup>2</sup> . K/m)
<b>Coefficient of Thermal Expansion</b>	<b>6.3</b>	x 10 <sup>-6</sup> /F	<b>11.4</b>	x 10 <sup>-6</sup> /C
<b>Max. Temperature</b>	<b>3,812</b>	°F	<b>2,100</b>	°C