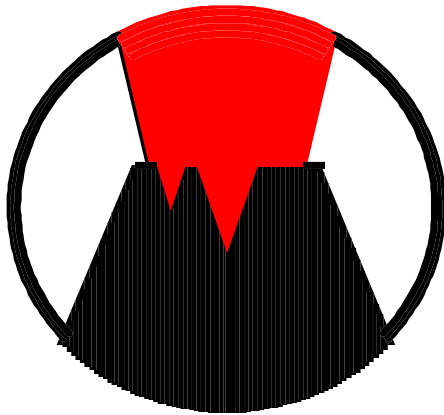


# ZYAROCK

## Typical Composition



<b>Silica</b>	SiO <sub>2</sub>	>99.6%
<b>Alumina</b>	Al <sub>2</sub> O <sub>3</sub>	0.12%
<b>Iron Oxide</b>	Fe <sub>2</sub> O <sub>3</sub>	0.10%
<b>Titania</b>	TiO <sub>2</sub>	0.027%
<b>Magnesia</b>	MgO	0.013%
<b>Sodium Oxide</b>	Na <sub>2</sub> O	0.008%
<b>Calcia</b>	CaO	0.007%
<b>Potassium Oxide</b>	K <sub>2</sub> O	0.005%

## Physical Properties

<b>Bulk Density</b>	<b>Open Porosity</b>	<b>Flexural Strength 20°C</b>	<b>Compressive Strength</b>
1.95 g/cm <sup>3</sup>	<12%	27 Mpa	50 Mpa
122 #/ft <sup>3</sup>	<12%	4 ksi	7 ksi

## Thermal Properties

<b>Conductivity</b>		<b>Expansion Coefficient 20-1000°C</b>	<b>Max Use Temperature*</b>
<b>20°C</b>	<b>800°C</b>		
0.64 W/m°K	0.55 W/m°K	0.6 x 10 <sup>-6</sup> /°C	1648 °C
4.4 BTU.in/ft <sup>2</sup> .hr°F	3.8 BTU.in/ft <sup>2</sup> .hr°F	0.3 x 10 <sup>-6</sup> /°F	3000 °F

\*This is for a single thermal cycle. Under multiple cycling conditions, max use temperature is 1100°C (2012°F).

These values represent typical properties of standard materials. They should be used only for comparison and should not be used as a warranty.  
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