



Advanced Ceramic Technologies

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# SIALON

TYPE C935 TO IEC 60672

## Composition

Beta Sialon	100% (by XRD)
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## Physical Properties

Bulk Density	Open Porosity	Flexural Strength		Compressive Strength
		20°C	1000°C	20°C
3.2 g/cm <sup>3</sup>	0%	760 Mpa	560 Mpa	3500 Mpa
200 lbs/ft <sup>3</sup>	0%	110 ksi	81 ksi	510 ksi

## Thermal Properties

Conductivity 20°C	Expansion Coefficient 20-1000°C	Max Use Temperature (In Oxidizing Atmospheres)
21 W/m <sup>2</sup> K	3.0 x 10 <sup>-6</sup> /C°	1000°C
146 BTU.in/ft <sup>2</sup> .hr°F	1.7 x 10 <sup>-6</sup> /F°	1832°F

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