

## MV20 MULLITE

TYPE C610 TO IEC 60672

### Composition

Alumina	Al <sub>2</sub> O <sub>3</sub>	55.2%
Silica	SiO <sub>2</sub>	41.9%
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	0.8%
Potassium Oxide	K <sub>2</sub> O	0.6%
Titania	TiO <sub>2</sub>	0.5%
Sodium Oxide	Na <sub>2</sub> O	0.4%
Calcia	CaO	0.3%
Magnesia	MgO	0.2%

### Physical Properties

Bulk Density	Open Porosity	Flexural Strength		Compressive Strength
		20°C	1000°C	20°C
2.5 g/cm <sup>3</sup>	0%	145 Mpa	96 Mpa	655 Mpa
156 lbs/ft <sup>3</sup>	0%	21 ksi	14 ksi	95 ksi

### Thermal Properties

Conductivity		Expansion Coefficient	Max Use Temperature (no load)
20°C	800°C		
2.4 W/m <sup>o</sup> K	2.0 W/m <sup>o</sup> K	5.4x 10 <sup>-6</sup> /C <sup>o</sup>	1450°C
17 BTU.in/ft <sup>2</sup> .hr°F	14 BTU.in/ft <sup>2</sup> .hr°F	3.0 x 10 <sup>-6</sup> /F <sup>o</sup>	2642°F

### Electrical Properties

Volume Resistivity	
20°C	600°C
>10 <sup>13</sup> Ω.cm	7.8x10 <sup>6</sup> Ω.cm



## Advanced Ceramic Technologies

510 Ninth Avenue, Beaver Falls, PA 15010

These values are typical but significant differences may occur depending on geometry, mass, specific processing methods used, and the surface finish of final components.