



Advanced Ceramic Technologies

510 Ninth Avenue, Beaver Falls, PA 15010

Telephone: 724 843 8300

Fax: 724 843 5644

Email: sales@mcdanelceramics.com

Web: www.mcdanelceramics.com

# 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		
5 W/m <sup>°K</sup>	3.3 W/m <sup>°K</sup>	5.4x 10 <sup>-6</sup> /C°	1450°C
35 BTU.in/ft <sup>2</sup> .hr°F	23 BTU.in/ft <sup>2</sup> .hr°F	3.0 x 10 <sup>-6</sup> /F°	2642°F

These values represent typical properties of standard materials.

Values should be used only for comparison and should not be used as a warranty.