



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 ₂ O ₃	55.2%
Silica	SiO ₂	41.9%
Iron Oxide	Fe ₂ O ₃	0.8%
Potassium Oxide	K ₂ O	0.6%
Titania	TiO ₂	0.5%
Sodium Oxide	Na ₂ 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 ³	0%	145 Mpa	96 Mpa	655 Mpa
156 lbs/ft ³	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 ^{°K}	2.0 W/m ^{°K}	5.4x 10 ⁻⁶ /C [°]	1450°C
17 BTU.in/ft ² .hr°F	14 BTU.in/ft ² .hr°F	3.0 x 10 ⁻⁶ /F [°]	2642°F

Electrical Properties

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

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