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MV20 MULLITE

TYPE C610 TO IEC 60672

Composition

Alumina	Al_2O_3	55.2%
Silica	SiO_2	41.9%
Iron Oxide	Fe_2O_3	0.8%
Potassium Oxide	K_2O	0.6%
Titania	TiO_2	0.5%
Sodium Oxide	Na_2O	0.4%
Calcia	CaO	0.3%
Magnesia	MgO	0.2%

Physical Properties

Bulk Density	Open Porosity	Flexural Strength 20°C	Flexural Strength 1000°C	Compressive Strength 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 20°C	Conductivity 800°C	Expansion Coefficient 20-1000°C	Max Use Temperature (no load)
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	Volume Resistivity 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.