

MV30 MULLITE

TYPE C610 TO IEC 60672

Composition

Alumina	Al ₂ O ₃	60.0%
Silica	SiO ₂	37.9%
Iron Oxide	Fe ₂ O ₃	0.5%
Potassium Oxide	K ₂ O	0.6%
Titania	TiO ₂	0.5%
Sodium Oxide	Na ₂ O	0.2%
Calcia	CaO	0.1%
Magnesia	MgO	0.2%

Physical Properties

Bulk Density	Open Porosity	Flexural Strength 20°C	Compressive Strength 20°C
2.75 g/cm ³	0%	180 Mpa	1310 Mpa
172 lbs/ft ³	0%	26 ksi	190 ksi

Thermal Properties

Conductivity		Expansion Coefficient	Max Use Temperature
20°C	800°C	20-1000°C	(no load)
3.6 W/m ^{°K}	2.6 W/m ^{°K}	5.0x 10 ⁻⁶ /C°	1500°C
25 BTU.in/ft ² .hr°F	18 BTU.in/ft ² .hr°F	2.8 x 10 ⁻⁶ /F°	2732°F

Electrical Properties

Volume Resistivity	
20°C	600°C
>10 ¹³ Ω.cm	1.5x10 ⁷ 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.