

MV-HR1 MULLITE

TYPE C610 TO IEC 60672

Composition

Alumina	Al ₂ O ₃	59.0%
Silica	SiO ₂	36.0%
Iron Oxide	Fe ₂ O ₃	0.6%
Potassium Oxide	K ₂ O	3.0%
Titania	TiO ₂	0.7%
Sodium Oxide	Na ₂ O	0.3%
Calcia	CaO	0.2%
Magnesia	MgO	0.2%

Physical Properties

Bulk Density	Open Porosity	Flexural Strength		Compressive Strength
		20°C	1000°C	20°C
2.6 g/cm ³	0%	140 Mpa	190 Mpa	-
162 lbs/ft ³	0%	20 ksi	28 ksi	-

Thermal Properties

Conductivity		Expansion Coefficient	Max Use Temperature (no load)
20°C	800°C		
2.6 W/m ^o K	2.1 W/m ^o K	5.9x 10 ⁻⁶ /C ^o	1500°C
18 BTU.in/ft ² .hr ^o F	15 BTU.in/ft ² .hr ^o F	3.3 x 10 ⁻⁶ /F ^o	2732°F

Electrical Properties

Volume Resistivity	
20°C	600°C
10 ¹³ 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.