

Mullite

Mullite is a high temperature ceramic material with good mechanical strength and excellent thermal shock properties due to its relatively low thermal expansion coefficient. Mullite is a good lower cost alternative to dense alumina. Typical applications include, but are not limited to, thermocouple applications, furnace muffle tubes, kiln rollers, sight tubes, rods and kiln furniture.

Mechanical, Electrical, Thermal and Physical Properties

Material Grade	Mullite
Physical Properties	
Water Absorption (%)	Impervious: 0.00 - 0.00
Density (g/cc)	2.3
Color	Off White
Mechanical Properties	
Flexural Strength (MPa/20 C)	115
Thermal Properties	
C.O.T.E. (20-1000 C)	5.1×10^{-6}
Safe Operating Temperature (C)	1500

Note: This information is for design guidance only. Du-Co will not guarantee this information as absolute values. Various geometries can affect properties