Quality: Mullit-G

Cast Mullite

Optical	Color	white
Chemical	Al_2O_3 SiO_2 Trace elements	approx. 72 wt.% approx. 28 wt.% < 2 wt.%
Physical	Open porosity	17,9 vol.%
	Bulk density	2,630 g/cm^3
	Water absorption	6,81 w.%
Thermal	Linear thermal expansion coefficient (24 - 1000 °C)	7,37 x 10^{-6} /K
	Maximum recommended service temperature Onset of softening	1500 °C 1650 °C
	Melting range of mullite phase	1810 - 1850
	Thermal conductivity at 100 °C	5,145 W/(m·K)
	Thermal shock resistance *Not suitable for inductive heating!*	good
Mechanical	Cold compressive strength	381 MPa
	Flexural strength at room temperature	58,8 MPa
	Modulus of elasticity (Young´s modulus)	64146 MPa

Application note:

The maximum permissible service temperature depends on mechanical load, furnace atmosphere, heating rate, and type of melt.

All values given are to be considered as typical guideline values.