

Refractory Alumina Grades – Typical Properties

Composition		Mullite	Corundum Mullite	Refractory Mullite (coarse grain)
Al ₂ O ₃	%	60	75	80
SiO ₂	%	35	20	20
MgO	%	2.5	1.5	-
Other Oxides (each)	%	<0.5	<0.4	<0.4
Property				
Max Service Temperature	°C (°F)	1400 (2550)	1450 (2650)	1500 (2700)
Bulk Density	g/cm ³	2.2	2.6	2.7
Open Porosity	%	25	20	20
Modulus of Rupture (room Temp)	MPa	35	40	15
Modulus of Elasticity	GPa			
Thermal Conductivity	W/mK	2	2.5	2.5
Thermal Expansion (20-1000°C)	x10 ⁻⁶ /K	5.0	5.8	6.0

This information is given in good faith but does not constitute a specification or guarantee.