

Cordierite-Mullite Materials Data Sheet

Property	Units	TREMON	TRETOP	TRESUN	TREHEN
Chemical Composition					
Al ₂ O ₃	[%]	35.0	43.0	38.0	38.0
SiO ₂	[%]	55.0	49.0	51.0	52.0
MgO	[%]	7.5	5.0	8.0	6.5
Microstructure					
Bulk Density	[g/cm ³]	1.85	1.95	1.90	1.95
Apparent Porosity	[vol%]	28.0	24.0	28.0	26.0
Mechanical Properties					
Modulus of Rupture @ Room Temperature	[MPa]	20	16	12	12
@ 1250°C	[MPa]	12	11	15	9
Thermal Properties					
Max Working Temperature	[°C]	1300	1300	1350	1250
Thermal Expansion Coefficient [25-1000°C]	[x 10 ⁻⁶ /K]	2.6	3.5	2.4	2.3
Specific Heat @ 20°C	[Kj/Kg°K]	1.0	1.0	1.0	1.0
Thermal Shock Resistance		Good	Good	Very Good	Very Good

Note: The above data represent typical values of Rojan Cordierite-Mullite.