

Material Technical Data Sheet

Material: Cordierite
 Density: STANDARD Material
 Product: Ceramic Infrared Emitter



Property	Designation	STD Material
Colour		Light-Tan
Water Absorption	%	39.96
Bulk Density	(g/cc)	1.28
Specific Gravity		2.64
Apparent Porosity	%	51.3
Fired M.O.R (3 point flexure)	PSI	1,003
Dielectric Strength	(V/0.001in)	3,700
Maximum Operating Temperature Under Non Loading Conditions	°C	1,300
	°F	2,350
Linear Coefficient of Thermal Expansion	(@25°C - 1000°C) x 10 ⁻⁶ /°C	2.74
Chemical Analysis	Designation	STD Material
Al ₂ O ₃	%	27.00
SiO ₂	%	51.20
CaO	%	0.79
MgO	%	17.50
Na ₂ O	%	0.09
Fe ₂ O ₃	%	1.23
TiO ₂	%	0.95
K ₂ O	%	0.17
MnO	%	0.01
P ₂ O ₅	%	0.09
Cr ₂ O ₃	%	0.01
ZrO ₂	%	0.01
SUM	%	99.05

NOTE: THE INFORMATION IN THIS DATA SHEET IS FOR DESIGN GUIDANCE ONLY. APOGEE CERAMICS INC. DOES NOT WARRANTY THIS DATA AS ABSOLUTE VALUES. FORMING METHODS AND SPECIFIC GEOMETRY COULD AFFECT PROPERTIES. SLIGHT ADJUSTMENTS CAN BE MADE TO SOME OF THE PROPERTIES TO ACCOMMODATE SPECIFIC CUSTOMER REQUIREMENTS. MOST OF THE MATERIALS IN THE TABLE ARE RESISTANT TO MECHANICAL EROSION AND CHEMICAL ATTACK.

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