

Material Technical Data Sheet

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



Property	Designation	HP Material
Colour		Orange - Tan
Water Absorption	%	56.14
Bulk Density	(g/cc)	1.06
Specific Gravity		2.62
Apparent Porosity	%	59.5
Fired M.O.R (3 point flexure)	PSI	880
Dielectric Strength	(V/0.001in)	
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	3.51
Chemical Analysis	Designation	HP Material
Al ₂ O ₃	%	25.92
SiO ₂	%	53.34
CaO	%	0.41
MgO	%	17.29
Na ₂ O	%	0.15
Fe ₂ O ₃	%	1.77
TiO ₂	%	0.94
K ₂ O	%	0.19
MnO	%	0.00
P ₂ O ₅	%	0.00
Cr ₂ O ₃	%	0.00
ZrO ₂	%	0.00
SUM	%	100.01

NOTE: THE INFORMATION IN THIS DATA SHEET IS FOR DESIGN GUIDANCE ONLY. APOGEE CERAMICS INC. DOES NOT WARRANT 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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