

Du-Co Ceramics S-570 Silica

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Du-Co Ceramics Company manufactures a variety of crushable ceramic materials for use worldwide in cartridge heaters, thermocouples, and mineral insulated cable. The crushable ceramic products are custom designed to meet specifications for purity and crushability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Du-Co-Ceramics-S-570-Silica.php

Physical Properties	Metric	English	Comments
Bulk Density	2.00 g/cc	0.0723 lb/in ³	
Porosity	>= 18 %	>= 18 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	13.8 - 41.4 MPa	2000 - 6000 psi	
Compressive Strength	13.8 - 41.4 MPa	2000 - 6000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.80 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	5.44 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 - 700 $^\circ\text{C}$	@Temperature 77.0 - 1290 $^\circ\text{F}$	
Maximum Service Temperature, Air	1400 $^\circ\text{C}$	2550 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	10.2 %	10.2 %	
CaO	0.31 %	0.31 %	
Fe ₂ O ₃	0.44 %	0.44 %	
MgO	36.27 %	36.27 %	
SiO ₂	52.49 %	52.49 %	

Descriptive Properties	Value	Comments
B+Cd (ppm)	400	

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