

Du-Co Ceramics S-470 Aluminum Silicate

Category : Ceramic , Oxide , Aluminum 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-470-Aluminum-Silicate.php

Physical Properties	Metric	English	Comments
Bulk Density	1.78 g/cc	0.0643 lb/in ³	
Porosity	>= 18 %	>= 18 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	13.8 - 68.9 MPa	2000 - 10000 psi	
Compressive Strength	48.3 - 207 MPa	7000 - 30000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.50 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.17 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@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	26.7 %	26.7 %	
CaO	0.070 %	0.070 %	
Fe ₂ O ₃	0.35 %	0.35 %	
MgO	1.78 %	1.78 %	
SiO ₂	69.8 %	69.8 %	

Descriptive Properties	Value	Comments
B+Cd (ppm)	400	

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