

Anderman Ceramics EC70P Mullite-Bonded Porous Silicon Carbide (70%)

Category : Ceramic , Carbide

Material Notes:

Excellent thermal shock properties when in contact with molten metal. Available as tube, sheath, or rod up to 7.2 ft (2.2 m) long with diameters 0.6" to 4.7". Information provided by Anderman Ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Anderman-Ceramics-EC70P-Mullite-Bonded-Porous-Silicon-Carbide-70.php

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/in ³	
Open Porosity	25 %	25 %	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	2.78 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 1000 $^\circ\text{C}$	@Temperature 68.0 - 1830 $^\circ\text{F}$	
Thermal Conductivity	7.00 W/m-K	48.6 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 20.0 - 100 $^\circ\text{C}$	@Temperature 68.0 - 212 $^\circ\text{F}$	
Maximum Service Temperature, Air	1400 $^\circ\text{C}$	2550 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	19 %	19 %	
SiC	70 %	70 %	
SiO ₂	10.5 %	10.5 %	

Descriptive Properties	Value	Comments
Thermal Shock Resistance	Very Good	

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