

Pyrotek O'-Sialon Non-Oxide Ceramic

Category : Ceramic , Carbide

Material Notes:

O'-Sialon is a unique class of non-oxide ceramic which incorporates grains of silicon carbide held by a matrix of O'-Sialon. This results in a product that exhibits high strength at both room temperature and working temperature. It also gives longer life meaning less change-overs and less down time. No expensive and time consuming coatings are required because O'-Sialon is non-wetting to molten aluminum and its alloys. Applications Dosing tubes Riser tubes Heater protection tubes Thermocouple Protection tubes Advantages Excellent oxidation resistance Non-wetting to aluminum and its alloys Good thermal shock Good abrasion resistance Chemically inert Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-0039-Sialon-Non-Oxide-Ceramic.php

Physical Properties	Metric	English	Comments
Density	2.62 g/cc	0.0947 lb/in ³	
Open Porosity	13 - 20 %	13 - 20 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.160 GPa	23.2 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	3.90 $\mu\text{m}/\text{m}\cdot\text{°C}$	2.17 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	8.90 W/m-K	61.8 BTU-in/hr-ft ² -°F	
	@Temperature 720 °C	@Temperature 1330 °F	
Maximum Service Temperature, Air	1500 °C	2730 °F	Continuous

Component Elements Properties	Metric	English	Comments
SiC	65 %	65 %	

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