

Pyrotek Insural® 85 MASTIC Insulating Mastic for Aluminum contact Applications

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Insural® 85 MASTIC is an asbestos-free, durable and insulating refractory composition designed for the fabrication of launders and jointing, bedding and patching of precast refractory shapes. Advantages User-friendly workability Low shrinkage reduces pull-out from joints High strength reduces the risk of erosion of repaired areas and joints Not wetted by molten aluminum Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Insural-85-MASTIC-Insulating-Mastic-for-Aluminum-contact-Applications.php

Physical Properties	Metric	English	Comments
Density	0.820 - 0.880 g/cc	0.0296 - 0.0318 lb/in ³	fired density (compressed)
	1.45 - 1.55 g/cc	0.0524 - 0.0560 lb/in ³	wet density (as supplied)
Loss On Ignition	35 - 40 %	35 - 40 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00350 - 0.00400 GPa	0.508 - 0.580 ksi	dried 24 hours @ 120°C
	0.00280 - 0.00350 GPa	0.406 - 0.508 ksi	
	@Treatment Temp. 750 °C, Time 86400 sec	@Treatment Temp. 1380 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.160 W/m-K	1.11 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	
	@Temperature 400 °C	@Temperature 752 °F	
	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	
	@Temperature 650 °C	@Temperature 1200 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	Continuous
Shrinkage	<= 1.00 %	<= 1.00 %	
	@Temperature 120 °C, Time 86400 sec	@Temperature 248 °F, Time 24.0 hour	
	<= 2.00 %	<= 2.00 %	

Thermal Properties	Metric	English	Comments
	@Temperature 750 °C, Time 86400 sec	@Temperature 1380 °F, Time 24.0 hour	fired 24 hours @ 750°C
	<= 2.50 %	<= 2.50 %	fired 24 hours @ 1000°C
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	20 %	20 %	
SiO2	75 %	75 %	

Descriptive Properties	Value	Comments
72 Hour Cup Test 7075 Alloy	No Reaction / Excellent	815°C

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