

Pyrotek MT-29B Microporous Insulating Board

Category : Ceramic

Material Notes:

MT-29B has the low thermal conductivity. Its cellular structure contributes to its low-weight, good compressive strength, and low shrinkage at high temperatures. Applications Backup insulation for: Troughs Filter bowls Furnace linings Transfer crucibles Door insulation

Advantages Low thermal conductivity Reduces warping of vessels and troughing Promotes greater temperature control Minimizes heat transfer Can be designed to be reused Minimizes hot face temperature of vessels Provides low shrinkage at high temperatures Not wet by molten aluminum Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-MT-29B-Microporous-Insulating-Board.php

Physical Properties	Metric	English	Comments
Density	0.288 - 0.352 g/cc	0.0104 - 0.0127 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Strength	1.10 MPa	160 psi	to 30% deformation with density of 0.288 g/cc
	1.70 MPa	247 psi	to 30% deformation with density of 0.320 g/cc
	3.40 MPa	493 psi	to 30% deformation with density of 0.352 g/cc

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0290 W/m-K	0.201 BTU-in/hr-ft ² -°F	(Standard and Hydrophobic)
	@Temperature 260 °C	@Temperature 500 °F	
	0.0420 W/m-K	0.291 BTU-in/hr-ft ² -°F	Standard
	@Temperature 537 °C	@Temperature 999 °F	
	0.0480 W/m-K	0.333 BTU-in/hr-ft ² -°F	(Hydrophobic)
	@Temperature 537 °C	@Temperature 999 °F	
0.0490 W/m-K	0.340 BTU-in/hr-ft ² -°F	Standard	
@Temperature 649 °C	@Temperature 1200 °F		
Maximum Service Temperature, Air	1000 °C	1830 °F	Continuous
	0.300 %	0.300 %	
Shrinkage			

Thermal Properties	Metric @Temperature 538 °C, Time 86400 sec	English @Temperature 1000 °F, Time 24.0 hour	Comments
	0.600 %	0.600 %	
	@Temperature 815 °C, Time 86400 sec	@Temperature 1500 °F, Time 24.0 hour	
	1.00 %	1.00 %	
	@Temperature 954 °C, Time 86400 sec	@Temperature 1750 °F, Time 24.0 hour	

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