

Pyrotek MT-29Q Quilted Microporous Insulation

Category : Ceramic , Glass

Material Notes:

MT-29Q is quilted to encapsulate its microporous core between glass cloth. The result is a flexible insulating material which offers exceptionally low thermal conductivity. The quilting maintains the core distribution to ensure its insulating effectiveness and provide resistance to vibration. Applications Backup insulation for: Troughs Filter bowls Furnace linings Transfer crucibles Door insulation Curved surfaces Irregular shapes Ladle linings 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-29Q-Quilted-Microporous-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.256 g/cc	0.00925 lb/in ³	

Mechanical Properties	Metric	English	Comments
Compressive Strength	0.200 MPa	29.0 psi	to 10% deformation
	0.600 MPa	87.0 psi	to 20% deformation
	1.10 MPa	160 psi	to 30% deformation

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0290 W/m-K @Temperature 260 °C	0.201 BTU-in/hr-ft ² -°F @Temperature 500 °F	(Standard and Hydrophobic)
	0.0420 W/m-K @Temperature 537 °C	0.291 BTU-in/hr-ft ² -°F @Temperature 999 °F	Standard
	0.0480 W/m-K @Temperature 537 °C	0.333 BTU-in/hr-ft ² -°F @Temperature 999 °F	(Hydrophobic)
	0.0490 W/m-K @Temperature 649 °C	0.340 BTU-in/hr-ft ² -°F @Temperature 1200 °F	Standard
	0.0560 W/m-K @Temperature 649 °C	0.389 BTU-in/hr-ft ² -°F @Temperature 1200 °F	Hydrophobic
Maximum Service Temperature, Air	650 °C	1200 °F	for Continuous use with standard cloth exterior
	1000 °C	1830 °F	for Continuous use with specialty cloth exterior or flexible core

Thermal Properties	Metric 	English	Comments
Shrinkage	@Temperature 538 °C	@Temperature 1000 °F	
	0.600 %	0.600 %	
	@Temperature 815 °C	@Temperature 1500 °F	
	1.30 %	1.30 %	
	@Temperature 954 °C	@Temperature 1750 °F	

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