

## Pyrotek MT-29L Microporous Ladle Lining Insulation

Category : Ceramic , Glass

### Material Notes:

MT-29L is a microporous insulation material covered with a flexible glass fabric. Parallel-stitched for ease of handling during installation, it is designed for use between ladle shells and the backup lining. It resists compression during operation which helps maintain lining stability. Applications Backup insulation for: Continuous casting ladles Single-pour ladles Torpedo tube cars Tapping or transfer ladles Over the road crucibles Advantages Low thermal conductivity Reduces heat flow through ladle wall Longer working times for metal pouring or storage Minimal change in refractory layout Minimizes loss in ladle capacity Reduces shell temperature Not wet by molten aluminum Reduces installation times Increases lining stability Information provided by Pyrotek.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Pyrotek-MT-29L-Microporous-Ladle-Lining-Insulation.php](http://www.lookpolymers.com/polymer_Pyrotek-MT-29L-Microporous-Ladle-Lining-Insulation.php)

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

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	0.201 BTU-in/hr-ft <sup>2</sup> -°F	(Standard and Hydrophobic)
	@Temperature 260 °C	@Temperature 500 °F	
	0.0420 W/m-K	0.291 BTU-in/hr-ft <sup>2</sup> -°F	Standard
	@Temperature 537 °C	@Temperature 999 °F	
	0.0480 W/m-K	0.333 BTU-in/hr-ft <sup>2</sup> -°F	(Hydrophobic)
	@Temperature 537 °C	@Temperature 999 °F	
	0.0490 W/m-K	0.340 BTU-in/hr-ft <sup>2</sup> -°F	Standard
	@Temperature 649 °C	@Temperature 1200 °F	
	0.0560 W/m-K	0.389 BTU-in/hr-ft <sup>2</sup> -°F	Hydrophobic
	@Temperature 649 °C	@Temperature 1200 °F	
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	

## Contact Songhan Plastic Technology Co.,Ltd.

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