

Pyrotek AL-THERM 2100H Vacuum formed refractories for use with modular hot top systems

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Pyrotek offers a variety of vacuum formed products composed from Al-Therm 2100H. These alumina-silicate fibers feature a unique inorganic binder system and are custom designed to shapes which are formed to near net size. Applications Trough liners and launders Distribution pan linings Tundishes and pouring basins Hot top casting components Advantages Excellent insulating properties Light-weight and low density Excellent resistance to molten aluminum Good erosion resistance Highly resistant to thermal shock No preheating required Easy to install and maintain Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-AL-THERM-2100H-Vacuum-formed-refractories-for-use-with-modular-hot-top-systems.php

Physical Properties	Metric	English	Comments
Density	0.625 - 0.657 g/cc	0.0226 - 0.0237 lb/in ³	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft ² -°F	
	@Temperature 295 °C	@Temperature 563 °F	
	0.110 W/m-K	0.763 BTU-in/hr-ft ² -°F	
	@Temperature 540 °C	@Temperature 1000 °F	
	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	
	@Temperature 815 °C	@Temperature 1500 °F	
Maximum Service Temperature, Air	1150 °C	2100 °F	
Shrinkage	0.600 %	0.600 %	Permanent Linear Change
	@Temperature 760 °C, Time 86400 sec	@Temperature 1400 °F, Time 24.0 hour	
	1.20 %	1.20 %	
	@Temperature 870 °C, Time 86400 sec	@Temperature 1600 °F, Time 24.0 hour	Permanent Linear Change
	2.40 %	2.40 %	Permanent Linear Change
	@Temperature 980 °C, Time 86400 sec	@Temperature 1800 °F, Time 24.0 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	36 %	36 %	

Component Elements Properties	Metric	English	Comments
SiO2	63.3 %	63.3 %	
TiO2	0.50 %	0.50 %	

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