

Pyrotek Thermollite Insulating Refractory Shapes for Molten Aluminum

Category : Ceramic

Material Notes:

Thermollite has been specifically developed for direct contact with molten aluminum and its various alloys. Thermollite provides the specific advantage of reducing heat loss in melt transfer applications involving a low rate of metal flow. Applications Continuous Casting Launderers Continuous Casting Level Feed Tundishes Other preformed shapes for molten aluminum applications Advantages Resistant to thermal shock Does not require the application of aluminum resistant coating Does not contain alumina silicate refractory ceramic fibers Light weight Does not require a supporting steel shell in certain applications such as continuous casting launders Reusable for multiple casts Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Thermollite-Insulating-Refractory-Shapes-for-Molten-Aluminum.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------|---------------------------------|----------|
| Density | >= 0.594 g/cc | >= 0.0215 lb/in ³ | |
| Loss On Ignition | 0.550 % @Temperature 900 °C | 0.550 % @Temperature 1650 °F | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------|-----------|----------|
| Modulus of Rupture | 0.00237 GPa | 0.344 ksi | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|------------------------------------|--|------------|
| Thermal Conductivity | 0.160 W/m-K @Temperature 540 °C | 1.11 BTU-in/hr-ft ² -°F @Temperature 1000 °F | |
| | 0.190 W/m-K @Temperature 815 °C | 1.32 BTU-in/hr-ft ² -°F @Temperature 1500 °F | |
| Maximum Service Temperature, Air | 850 °C | 1560 °F | Continuous |
| | 1000 °C | 1830 °F | |
| Shrinkage | 0.110 % @Temperature 400 °C | 0.110 % @Temperature 752 °F | |
| | 0.800 % @Temperature 730 °C | 0.800 % @Temperature 1350 °F | |

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