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BIOSOLUBLE

3R2770HT

Description

Designed from a special spinning process of calcium, magnesium and silica bases, the 3R 2770HT offers several advantages over traditional fibrous insulating materials in high temperature applications. It remains stable even at elevated tension or if subjected to humid atmospheric conditions.

This product also has low levels of non-fibrous particles, commonly called «shot». Therefore, it delivers particularly good thermal conductivity, which minimizes heat loss, reduces outer surface temperatures and cuts operating costs.

Applications

This biosoluble paper does not adhere to molten metals. In result, it can be used in troughs, gaskets, ladles and other areas that come in direct contact with molten aluminum.

Due to its combination of thermal stability, insulating ability and strength, applications for 3R 2770HT include :

Melting/holding furnace doors and roofs
Heat treating/homogenizing furnace lining
Carbon bake furnace corner insulation and covers
General heat protection use

Specifications

Physical properties	
Color	White
Nominal density (pcf)	11-13
Thickness	1/16" to 1/4"
Temperature	Continuous: 1150°C (2102°F), Short period: 1300°C (2370°F), Melting point: 1400°C (2550°F)

Thermal conductivity, BTU in/hr ft2 °F (w/m.k) (ASTM C201) Temperature @ 260°C (500°F)	0.39 (0.06)
Thermal conductivity, BTU in/hr ft2 °F (w/m.k) (ASTM C201) Temperature @ 535°C (1000°F)	0.65 (0.09)
Thermal conductivity, BTU in/hr ft2 °F (w/m.k) (ASTM C201) Temperature @ 815°C (1500°F)	1.02 (0.15)