Sinterlyte

Sinterlyte Material Overview

Sinterlyte is Refractory Specialties Inc's kiln furniture material. It uses man-made polycrystalline Alumina fibers, with inorganic binders that are specially processed to generate a material with high porosity, non-dusting properties, low drag, chemical non reactivity, and minimal creep for kiln processing applications. Sinterlyte resists thermal shock allowing for faster cycle times. RSI's vast forming and machining capabilities allow Sinterlyte to be made in a variety of shapes, besides standard boards and blocks, and can be tailor made to customer required shapes and specifications. Sinterlyte materials can be produced with a selection of coatings, including Alumina (Sinterlyte-A), Ceria (Sinterlyte -C) and Yttria-Stabilized Zirconia (Sinterlyte -Z), to improve chemical non reactivity in certain heat treating applications. To answer any questions, or if you have special requirements that are not covered by this product, call for our expert assistance at (330) 938-2101.

Sinterlyte Technical Information

Property	Sinterlyte	Sinterlyte-A	Sinterlyte-C	Sinterlyte-Z
Density	42-48 lb/ft^3	50-56 lb/ft^3	65-72 lb/ft^3	52-58 lb/ft^3
Modulus of Rupture (MOR)	750 lb/in^2	800 lb/in^2	800 lb/in^2	800 lb/in^2
Compressive Strength (10% Compression)	57600 lb/ft^2	64800 lb/ft^2	64800 lb/ft^2	64800 lb/ft^2
Maximum Use Temperature	2900^o F	2900^o F	2900^o F	2900^o F
Melting Point	3350^o F	3350^o F	>3350^o F	>3350^o F
Linear Shrinkage				
2700^o F	<0.2%	<0.2%	<0.2%	<0.2%
2800^o F	<1.0%	<1.0%	<1.0%	<1.0%
2900^o F	<2.0%	<2.0%	<2.0%	<2.0%
Typical Chemical Analysis (After Use)				
SiO_2 (By Weight)	<2 %	<1 %	<1%	<1%
Al_2O_3 (By Weight)	>98 %	99 %	89%	88%
CeO_2 (By Weight)	0 %	0 %	10%	0%
Y_2O_3 (By Weight)	0 %	0%	0%	2%
ZrO_2 (By Weight)	0 %	0 %	0%	9%
Other (By Weight)	<1 %	<1%	<1%	1 %

Other Information

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