

China-Yixing Longly Refractories Shelf Boards and Pillars SiC

Category : Ceramic , Carbide

Material Notes:

SiC series products of SiC shelf boards, SiC pillars, SiC slab, SiC seggar kiln furniture, are formed using high-quality silicon carbide materials and high temperature binders by tons of high-vibration or hydraulic machine to suppress, high-temperature shuttle kiln firing; products performance and stability excellent, thermal shock good, oxidation resistance good, wear resistance excellent, heat-shock excellent, not slag off, long service life. The appearance of products formed, smooth, high-volume density, good thermal conductivity, energy-saving effect significant. Applications: Widely used in a variety of tunnel kiln, roller kiln, shuttle kiln production of sanitary ceramics, daily-use ceramics, art ceramics, magnetic materials, powder metallurgy, electrical porcelain, industrial ceramics, as well as refractory products, such as the firing

Information Provided by China Yixing Longly Refractories Co. Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_China-Yixing-Longly-Refractories-Shelf-Boards-and-Pillars-SiC.php

Physical Properties	Metric	English	Comments
Bulk Density	2.70 - 2.95 g/cc	0.0975 - 0.107 lb/in ³	
Porosity	8.0 - 9.0 %	8.0 - 9.0 %	Apparent

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 580 MPa	>= 84100 psi	cold bending
	>= 650 MPa	>= 94300 psi	high temp bending
Compressive Strength	>= 1200 MPa	>= 174000 psi	Ambient

Thermal Properties	Metric	English	Comments
CTE, linear	2.20 $\mu\text{m/m-}^{\circ}\text{C}$	1.22 $\mu\text{in/in-}^{\circ}\text{F}$	Volumetric thermal expansion
Thermal Conductivity	15.5 - 16.5 W/m-K	108 - 115 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	>= 1450 $^{\circ}\text{C}$	>= 2640 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
SiC	>= 89.9 %	>= 89.9 %	

Descriptive Properties	Value	Comments
Refractoriness ($^{\circ}\text{C}$)	>1400	Under load temperature, 0.2 MPa, 0.6%
Thermal Shock Resistance Times	60	1100 $^{\circ}\text{C}$ water cooling

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