

TECHNICAL BULLETIN

CRYSTOLON[®] Kiln Furniture

CN-192

CN192 is a coarse-grained, oxide bonded silicon carbide composition that offers good thermal shock resistance and oxidation resistance. CN192 was developed for a variety of kiln furniture applications where a “dry” (minimally glazed) surface is desirable. It is commonly found in batt or plate configurations.

Typical Characteristics

Chemistry	%
SiC	88
SiO ₂	10
Fe ₂ O ₃	0.5
Other	1.5
Maximum Use Temperature*	
°C	1500
°F	2730
Bulk Density (g/cc)	2.6
Apparent Porosity (%)	18
Modulus of Rupture (psi)	
20°C (70°F)	4000
1250°C (2280°F)	5000
1450°C (2640°F)	3000
Thermal Conductivity (BTU-in / ft²-h-°F)	
315°C (600°F)	113
650°C (1200°F)	120
980°C (1800°F)	104
1150°C (2100°F)	100
Coefficient of Thermal Expansion	
30 - 1500°C	5.8 x 10 ⁻⁶ per °C
85 - 2730°F	3.2 x 10 ⁻⁶ per °F
Emissivity	0.92

*May be used at higher temperatures but with loss of strength and ability to resist oxidation. Date: 07/04

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