

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

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Product Type: Silicon Carbide
Classification: Nitride Bonded

Mix Designation: 66-68
Method of Manufacture: Ram/Jolt

General Use Criteria: For applications requiring higher strength and/or thermal conductivity than given by the conventional silicon carbides. It is wear-resistant at high temperatures and possesses a good strength to weight ratio.

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Approximate Chemical Analysis (%):

SiC	77.84
Si ₃ N ₄	18.09
SiO ₂	2.58
Al ₂ O ₃	0.90
Fe ₂ O ₃	0.36
TiO ₂	0.14
CaO	0.03
MgO	0.01
Alkalies	0.04

Thermal Properties:

Maximum Service Temperature	2800 F
Coefficient of Thermal Expansion	21.5x10 ⁻⁷ in/in/F

Physical Properties:

Cold Modulus of Rupture (psi)	6000
Absorption (%)	6.3
Apparent Porosity (%)	15.5
Bulk Density (g/cc)	2.56
Apparent Specific Gravity (g/cc)	3.06

Data are average results of control tests made under standard procedures and are subject to normal variations. Results should not be used for specification purposes.

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Applications: Hearth plates, recuperator tubes, pusher slabs, skid rails, wear-resistant plates, girders, stringers, brick, lightweight kiln furniture including posts, firing rings, deck slabs, and setter plates.