

## Product Information Sheet for **SIC CN-178**

Property	Limits	Values
<b>Chemical analysis (wt%)</b>		
SiC	Typ	75
Si <sub>3</sub> N <sub>4</sub> <b>BOND</b>	Typ	23
Fe <sub>2</sub> O <sub>3</sub>	Typ	2
<b>Physical Properties</b>		
Bulk Density, gm/cc	Typ	2.6
Apparent Porosity, %	Max	18
<b>Mechanical Properties</b>		
Cold Crushing Strength, Kg/cm <sup>2</sup>	Min	1100
Modulus of Rupture, Kg/cm <sup>2</sup>		
Room temp.	Min	450
1400°C	Min	600
Hardness HV	Min	1500- 2000
<b>Thermal Properties</b>		
Thermal Conductivity, W/mK		
900°C	Typ	13
Max. temperature of use, °C		1500
Coeff. Of thermal expansion, X10 <sup>-6</sup> /°C	Typ	5.4

\*Typical Typical values refer to average values generally obtained on test bars and should not be taken as specifications.

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