

ADVANCER[®] CN703

	Measurement Technique	CN703
Chemical Analysis (%)	Slurry ICP	
SiC		70
Si ₃ N ₄ Bond		25
Oxides		5
Max. Service Temperature (°C) (depending on operating conditions)		1450
Bulk Density (g/cc)	ASTM C20	2.8
Thermal Expansion (x 10⁻⁶ per °C)	ASTM C832	4.3
Modulus of Rupture (MPa)		
20°C	ASTM C133	170
1250°C	ASTM C583	175
1450°C	ASTM C583	178
Apparent Porosity (%)	ASTM C20	≤1
Thermal Conductivity (W/(mK))	ASTM E1461	See Chart
Modulus of Elasticity (GPa)	ASTM C885-87	235
Specific Heat (J/g·K)	ASTM E1461	See Chart

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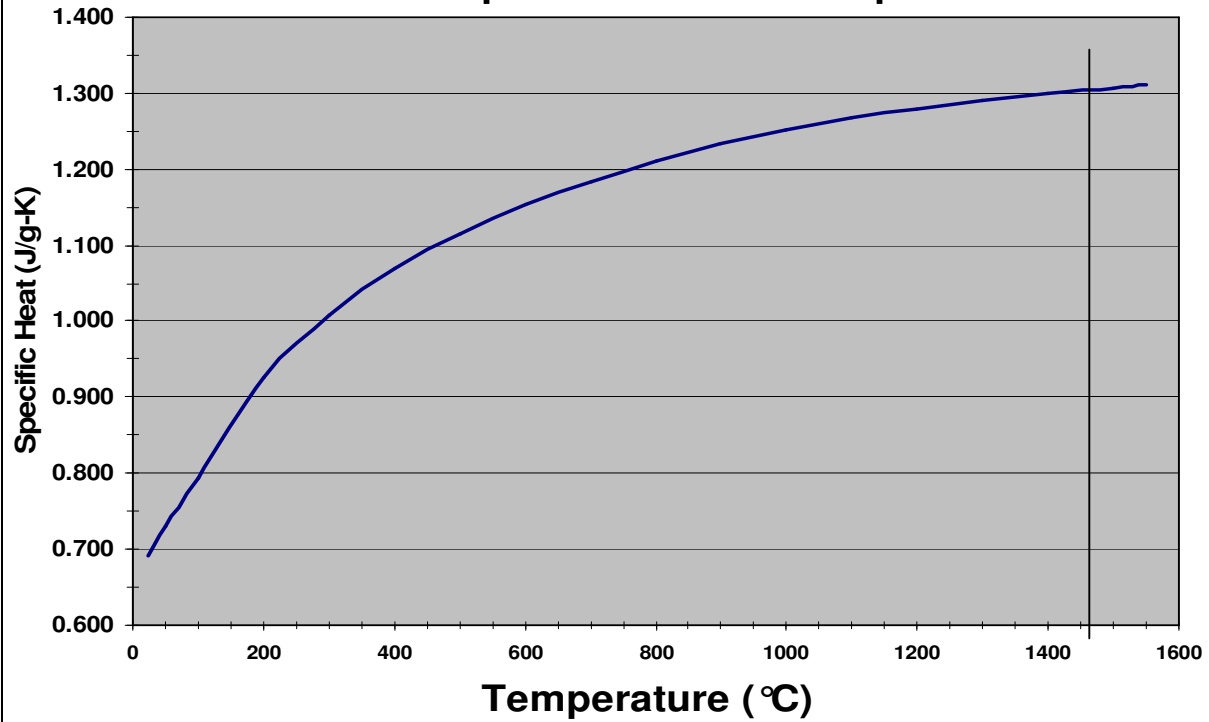
ATTRIBUTES



- Slip cast
- Original, high performance silicon nitride bonded SiC
- Fine grained mix used to manufacture beams, posts, plates and unique shapes with sections from 6.4-10mm
- Part of our **exclusive LO-MASS[®]** product line that offers thinner, lighter and stronger products

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 ISO9001 Certified
 Revised 3/20/12

ADVANCER® Specific Heat vs. Temperature



ADVANCER® Thermal Conductivity vs. Temperature

