



CORE-TECH

Committed to your success with precision ceramic cores

Contact us: (440) 946-8324
sales@core-tech-inc.com

CT-17

Ceramic Core Material Properties Typical Analysis

Applications:
For rods, tubes, shapes

Choosing the correct blend of material is a critical component to ensuring the successful performance of your ceramic cores in the investment casting process. The materials we use in our ceramic cores feature excellent alloy compatibility and consistent quality.

Method:	Extruded Core	
Major Chemistry (Wt %):	Silica	52
	Zircon	36
	Binder	11
	Other Trace	<1
Trace Elements (PPM):	Pb - Lead	<25
	Bi - Bismuth	<1
	Ag - Silver	<40
	Sb - Antimony	<40
	Zn - Zinc	<75
	Sn - Tin	<40
	Fe - Iron	≤1500
Physical Properties:	Apparent Porosity	29%
	Water Absorption	15%
	Apparent Specific Gravity	2.79
	Bulk Density (g/cm ³)	1.98
	Modulus of Rupture (MOR) (psi)	3500
	Thermal Expansion to 2100F	0.2%

Note: These values are not guaranteed and should be used only as indications of material properties. Core-Tech reserves the right to change, modify or eliminate analysis at any time.

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