



CORE-TECH

Committed to your success with precision ceramic cores

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CT-24

Ceramic Core Material Properties Typical Analysis

Applications:
For mold supports

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	69
	Zircon	17
	Binder	12
	Other Trace	<2
Trace Elements (PPM):	Pb - Lead	<35
	Bi - Bismuth	<1
	Ag - Silver	<10
	Sb - Antimony	5
	Zn - Zinc	5
	Sn - Tin	5
	Fe - Iron	1%
Physical Properties:	Apparent Porosity	34%
	Water Absorption	16%
	Apparent Specific Gravity	3.18
	Bulk Density (g/cm ³)	2.09
	Modulus of Rupture (MOR) (psi)	2300
	Thermal Expansion to 2100F	0.6%

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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