



# CORE-TECH

Committed to your success with precision ceramic cores

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## CT-12

### Ceramic Core Material Properties Typical Analysis

**Applications:**  
For mold plugs, etc

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.

<b>Method:</b>	Extruded Core	
<b>Major Chemistry (Wt %):</b>	Silica	69
	Zircon	20
	Binder	5
	Other Trace	<1
<b>Trace Elements (PPM):</b>	Pb - Lead	15
	Bi - Bismuth	<1
	Ag - Silver	<10
	Sb - Antimony	5
	Zn - Zinc	10
	Sn - Tin	5
	Fe - Iron	600
<b>Physical Properties:</b>	Apparent Porosity	33%
	Water Absorption	19%
	Apparent Specific Gravity	2.56
	Bulk Density (g/cm <sup>3</sup> )	1.71
	Modulus of Rupture (MOR) (psi)	1500
	Thermal Expansion to 2100F	0.2%

Note: These values are not guaranteed and should 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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