



## CT-38

### Ceramic Core Material Properties Typical Analysis

**Applications:**  
For titanium castings or  
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.

<b>Method:</b>	Extruded Core	
<b>Major Chemistry (Wt %):</b>	Zirconia	97
	Silica	2
	Alumina	1
<b>Trace Elements (PPM):</b>	Pb - Lead	<10
	Bi - Bismuth	<0.5
	Ag - Silver	<10
	Sb - Antimony	<10
	Zn - Zinc	<50
	Sn - Tin	<10
	Fe - Iron	≤0.15%
<b>Physical Properties:</b>	Apparent Porosity	36%
	Water Absorption	10%
	Apparent Specific Gravity	5.5 g/cc
	Bulk Density (g/cm <sup>3</sup> )	3.5 g/cc
	Modulus of Rupture (MOR) (psi)	3100

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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