



DC-08L

Ceramic Core Material Properties Typical Analysis

Applications:
For equiaxed, DS, and single crystal casting; ferrous, nickel and cobalt-based superalloys

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:	Injection Molded Core	
Major Chemistry (Wt %):	Silica	74
	Zircon	26
Trace Elements (PPM):	Pb - Lead	<10
	Bi - Bismuth	<0.5
	Ag - Silver	<10
	Sb - Antimony	<5
	Zn - Zinc	<25
	Sn - Tin	<5
	Fe - Iron	250
Physical Properties:	Apparent Porosity	28%
	Water Absorption	15%
	Apparent Specific Gravity	2.57
	Bulk Density (g/cm ³)	1.84
	Modulus of Rupture (MOR) (psi)	2900
	Thermal Expansion RT to 2825° F	0.1%
	Cristobalite	13%