



DATA SHEET

G-1

Ceramic Core Material

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Description		Physical Properties	
General core type with an intermediate particle size distribution for Equiax castings.		Modulus of rupture (4-point), psi	2100
		Length shrinkage (mold-to-fired), %	0.5
Major Chemistry	70	Chord shrinkage (mold-to-fired), %	0.7
Silica (SiO ₂), %	70	(25 - 1000°C), ppm/°C	1.3
Zircon (ZrSiO ₄), %	30		
Trace Element Analysis		Bulk density, g/cc	1.9
Iron (Fe), ppm	< 900	Apparent density, g/cc	2.6
Bismuth (Bi), ppm	< 1	Porosity, %	26
Lead (Pb), ppm	< 25	Absorption, %	14
Silver (Ag), ppm	< 25	Cristobalite content (after fire), %	1
Antimony (Sb), ppm	< 25	, ,,	3
Tin (Sn), ppm	< 25		3
Zinc (Zn), ppm	< 50	Leachability (30% boiling KOH, 30 g sample, 30 min.), %	100
		Core - Metal Reaction Compatibility	
		Most nickel based, Equiax alloys.	

Please note that all values quoted are based on test pieces and may vary according to component design. These values are not guaranteed in anyway whatsoever and should only be treated as indicative and for guidance only. Aug.12.2015.