DATA SHEET

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Ceramic Core Material

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Description		Physical Properties		
High silica core type with a fine particle size distribution. Intended for DS and SX applications with very thin cross sections and stability issues.		Modulus of rupture (4-point), psi	1700	
		Length shrinkage (mold-to-fired), %	1.0	
Major Chemistry		Chord shrinkage (mold-to-fired), %	0.9	
Silica (SiO ₂), %	97	Thermal expansion coefficient (25 - 1000°C), ppm/°C Bulk density, g/cc	1.9	
Zircon (ZrSiO ₄), %	3		1.6	
Trace Element Analysis		<i>y</i> · G		
Iron (Fe), ppm	< 900	Apparent density, g/cc	2.3	
		Porosity, %	31	
Bismuth (Bi), ppm	< 1	Absorption, %	20	
Lead (Pb), ppm	< 25	Cristobalite content (after fire), %	8	
Silver (Ag), ppm	< 25			
Antimony (Sb), ppm	< 25	Cristobalite content (after 30 min. at 1530°C), %	60	
Tin (Sn), ppm	< 25	Leachability (30% boiling KOH, 30 g sample, 15 min.), %	100	
Zinc (Zn), ppm	< 50			
		Core – Metal Reaction Compatibility		
		Most DS and SX 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