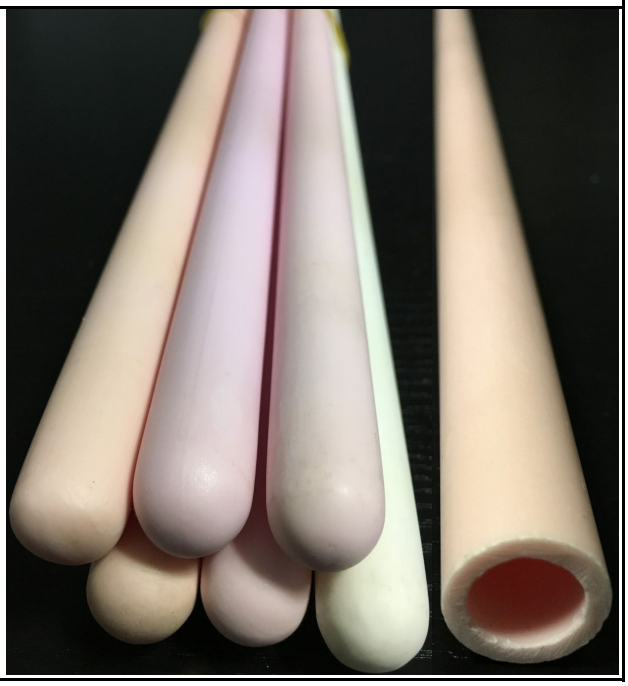
Properties/Materials	Alumina Ceramic 95% Pythagoras C610 ~ C795	Photo
Bulk Density (g/cm3)	3.6	
Apparent Porosity (%)	≤ 0.2	
Flexural Strength at 20°C (Mpa)	250	
Thermal Shock Resistance at 1,200°C	Good	
Thermal Expansion at 20 ~ 1,000°C (x 10^{-6}/°C)	6.2～7.5	
Thermal Conductivity W/(m.K)	25	
Maximum Working Temperature	1,400°C ~ 1,500°C	

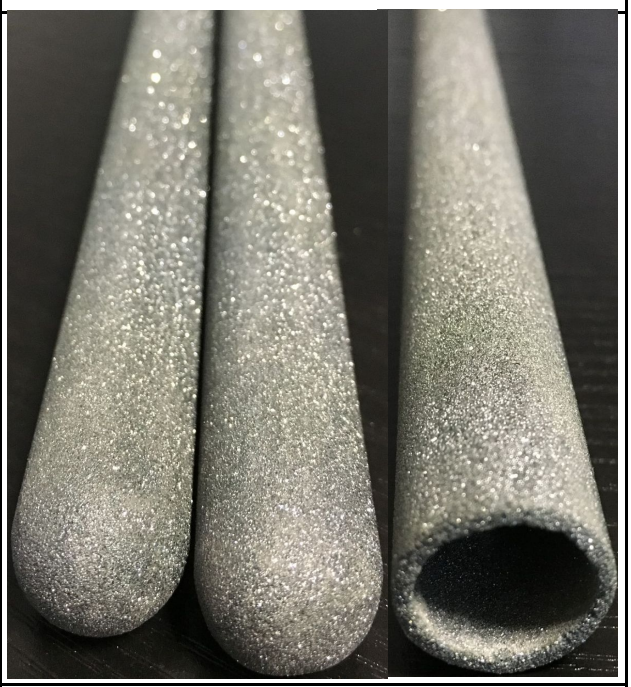
Properties/Materials	Alumina Ceramic 99.5% Alsint C799	Photo
Bulk Density (g/cm3)	3.7	
Apparent Porosity (%)	≤ 0.2	
Flexural Strength at 20°C (Mpa)	300	
Thermal Shock Resistance at 1,200°C	Good	
Thermal Expansion at 20 ~ 1,000°C (x 10^{-6}/°C)	7.8~8.6	
Thermal Conductivity W/(m.K)	29.2	
Maximum Working Temperature	1,500°C ~ 1,700°C	

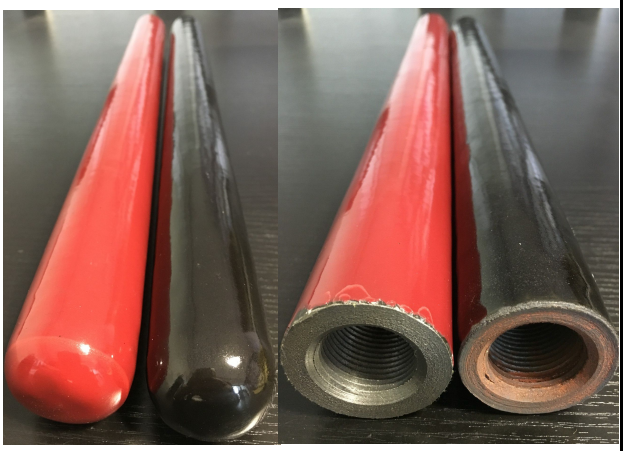
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Properties/Materials	SiSiC (HALSIC-I) Reaction-bonded Silicon Carbide	Photo
Bulk Density (g/cm3)	3.01	
Apparent Porosity (%)	≤0.1	
Flexural Strength at 20°C (Mpa)	260	
Thermal Shock Resistance at 1,200°C	Excellent	
Thermal Expansion at 20 ~ 1,000°C (x 10^{-6}/°C)	4.5	
Thermal Conductivity W/(m.K)	45	
Maximum Working Temperature	1,380°C	

Properties/Materials	NSiC Si3N4 Bond SiC Silicon Carbide	Photo
Bulk Density (g/cm3)	2.75~2.85	
Apparent Porosity (%)	≤ 11	
Flexural Strength at 20°C (Mpa)	170~180	
Thermal Shock Resistance at 1,200°C	Excellent	
Thermal Expansion at 20 ~ 1,000°C (x 10^{-6}/°C)	4.7	
Thermal Conductivity W/(m.K)	20	
Maximum Working Temperature	1,500°C	

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Properties/Materials	RSiC (HALSIC-R) Recristalyzed Silicon Carbide	Photo
Bulk Density (g/cm3)	2.65~2.75	
Apparent Porosity (%)	≤ 15	
Flexural Strength at 20°C (Mpa)	90~100	
Thermal Shock Resistance at 1,200°C	Good	
Thermal Expansion at 20 ~ 1,000°C (x 10^{-6}/°C)	4.69	
Thermal Conductivity W/(m.K)	36.6	
Maximum Working Temperature	1,650°C	

Properties/Materials	Cast Iron Plain and Enamel	Photo
Cast Iron Thermocouple Protection Tubes Cast iron tubes are designed to provide excellent physical strength for demanding environments including aluminium and zinc melting furnaces, the charging of scrap and ingot, as well as other applications requiring physical strength. Its design creates a robust and durable option for temperature measurement. Advantages *Enamel coating provides for good oxidation resistance *Excellent durability *Longer life from increased thickness		

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