



Too hard to beat!

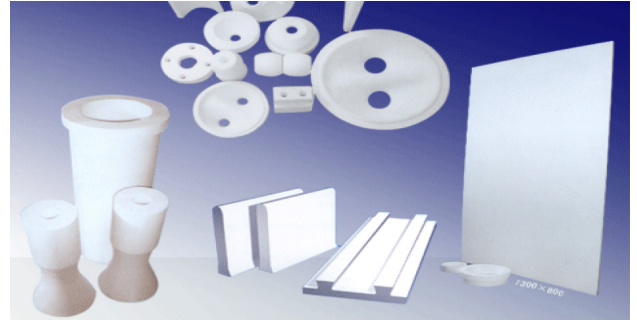
**Fused
Silica
Ceramic**
DATASHEET

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Fused Silica Ceramic has the other name: Slip Cast Quartz Ceramic and Quartz Ceramic, the raw material Fused Silica Sand has a good purity with $\text{SiO}_2 > 99.7\%$. The Fused Silica Ceramic is molded, white color and ceramic appearance. The unique production process makes the products a good visual quality, tight dimensional tolerance, good resistance to thermal shock. Furthermore, large size and complex shape can be produced with stable quality.

The products can be made in the shape of Crucible, Rod, Roller, Plate, Tray, etc. The crucible and tray is mainly used for growing multi-crystalline silicon ingot and melting metal powder, etc. The rod and roller is mainly used for glass kiln stove, etc.



PHYSICAL PROPERTY

Items	Specifications
Max Operation Temperature (°C)	1650
Melt Point Temperature	1750
Volume Density (g/cm ³)	≥ 1.78
Apparent Porosity	≤ 15
Compressive Strength (MPa)	≥ 50
Modulus of Rupture (Mpa)	≥ 20
Thermal Conductivity (W/m.k)(RT~1100°C)	0.60~1.70
Thermal Expansion Coefficient (°C-1)(RT~1100°C)	≤ 6x10 ⁻⁷
Crystallinity(Cristobalite)(%)	≤ 1%
Roughness (μm)	Ra<2.0

CHEMICAL COMPOSITION (PPM):

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	K ₂ O	Na ₂ O	CaO	MgO	CuO	Cr ₂ O ₃	TiO ₂
>99.7%	<1000	<50	<30	<30	<30	<30	<30	<30	<30

