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An ISO 9001:2015 Company

PRODUCT DATA SHEET

Fused Silica/Investment Casting Grade:

Fused Silica is made of high purity Chinese crystal Silica by electrically fusing (fusing temperature 1800-2000°C) to amorphous Silicon dioxide. It is then crushed to granular and flour form designed for investment casting application. This product has very low thermal conductivity and excellent thermal shock resistance.

Special Features:

- Very low coefficient of thermal expansion & Low thermal conductivity
- Superior Heat Resistance & Chemical Resistance
- Pure (high SiO₂ content, low Fe, Na, K & Ti)
- Consistent Chemistry
- Statistically controlled particle size distribution

Main Applications:

- Investment Casting, shell mould product
- High Grade Refractory Materials



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Chemical Composition:

SiO ₂ :	99.8%Min
AL ₂ O ₃ :	0.02%Max.
Fe ₂ O ₃ :	0.01%Max.
Na ₂ O:	0.005%Max.
TiO ₂ :	0.002%Max.
K ₂ O:	0.002%Max
CaO:	0.002%Max.
MgO	0.002%Max

Crystallinity

(Quartz+Tridymite+Cristoblite) 0.1% Max.

Physical Properties:

Appearance: Transparent Granules or White Powder

Specific Gravity: 2.21

Moisture: 0.05%Max.

Magnetic: 0.01 Max.



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Typical Grain Size:

Retained on	10/20 mesh	30/50 mesh	50/100 mesh	-200 mesh
10	<10			
20	80 - 90	<10		
30	<10	15 - 30		
50		85 - 95	<13	
100		< 10	85 - 95	<1
140			5 - 15	<10
200			<2	<15
325				15-30
Pan		<2	<2	70-80
Average Particle Size D 50 μ				22 - 32

PACKING

Fused Silica is packed and dispatched in 25 kg lined, woven polypropylene bags.

REMARKS

More information about the product and its usage can be provided by our technical support team. Contact us at sales@gs-associates.in