

# FUSED SILICA

(ISO 9002 CERTIFIED)

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## DESCRIPTION

FUSED SILICA is made from high purity silica, using unique fusion technology, to ensure the highest quality. Our FUSED SILICA is over 99% amorphous and has an extremely low coefficient of thermal expansion and high resistance to thermal shock. FUSED SILICA is inert, has excellent chemical stability, and has extremely low electrical conductivity.

## APPLICATIONS

FUSED SILICA is an excellent raw material for use in investment casting, refractories, foundries, technical ceramics, and other applications that require a consistent, high purity product with very low thermal expansion.

## TYPICAL CHEMICAL ANALYSIS

SiO <sub>2</sub>	99.80%
Al <sub>2</sub> O <sub>3</sub>	0.05%
Fe <sub>2</sub> O <sub>3</sub>	0.015%
Na <sub>2</sub> O	0.007%
K <sub>2</sub> O	0.003%
TiO <sub>2</sub>	0.01%
CaO	0.01%
MgO	0.003%

## TYPICAL PHYSICAL PROPERTIES

Magnetics	0.004%
Specific Gravity	2.21
pH	7.0 max.
Coefficient Thermal Expansion	0.5 x 10 <sup>-6</sup> / °C
Bulk Density	65 - 75 lb. / ft <sup>3</sup>

## STANDARD SIZES

4 / 10, 6 / 50, 10 / 20, 20 / 50, 30 / 50, 50 / 100, 100 / 200, 120/F, 200/F, 325/F  
*Custom sizing and blending is also available.*

## TYPICAL SIEVE ANALYSES

Typical grading can be found on Page 2 of this data sheet

This product information is NOT a specification. It is offered in good faith only as a general description of the product. **Washington Mills makes no warranty of merchantability or of fitness for any particular purpose.** The product chemistry and other characteristics may vary or contain trace elements not specifically listed. If your intended application for this product is so critical that relatively minor variations in chemistry or physical properties could cause problems or damage to your process or product, please contact our office for further assistance.

# FUSED SILICA (PG.2)

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## TYPICAL GRADING

US	4 / 10		6 / 50		10 / 20		20 / 50		30 / 50	
	%On	%Cum	%On	%Cum	%On	%Cum	%On	%Cum	%On	%Cum
4	4	4								
6	35	39								
10	52	91	12	12						
12					16	16				
16					42	58				
20	8	99	60	72	30	88	1	1	1	1
30			15	87	11	99	33	34	20	21
40			8	95						
50							59	93	73	94
80							6	99	5	99

US	50 / 100		100 / 200		120 / F		200 / F		325 / F	
	%On	%Cum	%On	%Cum	%On	%Cum	%On	%Cum	%On	%Cum
50	9	9								
80										
100	77	86	8	8	7	7	1	1		
140	12	98			10	17	2	3		
200	1	99	53	61	16	33	7	10	1	1
325			22	83	17	50	14	24	5	6
pan	1	100	17	100	50	100	76	100	94	100

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