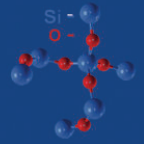




Fused Silica



Description

We strictly choose the high purity silica sand ($\text{SiO}_2 > 99\%$) in local Donghai county(hometown of crystal) as our raw material. The melted sand become amorphous silicon dioxide glassy ingot after being fused at high temperature (2000 -2300) °C and cooling. We further process the products into lump, grain and powder in accordance with customer's requirement.

Special Feature

Fused Silica features extremely low coefficient of thermal expansion, consistent chemistry and carefully controlled particle size distribution.

Applications

Fused Silica are used in ceramic,refractory,investment casting,EMC,solar crucible,etc.

Physical Properties

Chemical Analysis	Ingot / Grain	Powder
SiO_2	99.9% Min.	99.8% Min.
Al_2O_3	100ppm Max.	1000ppm Max.
Fe_2O_3	50ppm Max.	50ppm Max.
Na_2O	30ppm Max.	30ppm Max.
K_2O	30ppm Max.	30ppm Max.
Cl^-	5ppm Max.	5ppm Max.
EC	5 $\mu\text{s}/\text{cm}$ Max.	5 $\mu\text{s}/\text{cm}$ Max.
PH	6 - 8	6 - 8
Cristobalite /Crystalline	1.0% Max.	1.0% Max.
Magnetic Particles	10ppm Max.	20ppm Max.

Specific gravity	2.21g/cm ³
Hardness	7(New Mohs)
Softening point	About 1650°C
Refractoriness	SK34(1750°C)
Coefficient of thermal expansion	0.5x10 ⁻⁶ (0-1000°C)
Dielectric constant	3.8 (1MHz)

Size

100-10mm ; 50-10mm ; 10-1mm ; 5-2mm ; 3-1mm ; 1-0mm ; 1-0.5mm ; 0.5-0.1mm ; 0.3-0.1mm ; 0.3-0mm ; 0.1-0mm
 -4+10mesh , -6+50mesh , -10+20mesh , -20+50mesh , -30+50mesh , -50+100mesh , -100+200mesh , 120F , 200F , 325F

Sizing specifications

Mesh	-4/+10		-6/+50		-10/+20		-20/+50		-30/+50		-50/+100		-100/+200		120F		200F		325F		
	%On	%Cun	%On	%Cun	%On	%Cun	%On	%Cun	%On	%Cun	%On	%Cun	%On	%Cun	%On	%Cun	%On	%Cun	%On	%Cun	
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	9	9									
80							6	99	5	99											
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	5	100	1	100	1	100	1	100	1	100	17	100	50	100	76	100	94	100	

