

HUANGHE MINERALS CO.,LIMITED		Version: 2020
PRODUCTS SPECIFICATION		Code: M/P/qa
Product	Fused silica	Origin: China /HZ

Code	Fused Silica			Description	
	FS-1	FS-2	FS-3	use selected high pure quartz sand >99%, after crushing , acid washing, water washing and drying process, filled and stuffed in rotary electric fusing furnaces, heated in more than 1760C to produce higher grade amorphous glass ingot, the ingot will be removed from furnaces and cooling down, the ingot will be stripped of tis crust, further with experienced manually graded and put into state of art crushing, grinding, milling and blending system to get requested quality grains, flours, and blends for refractory, investment casting, electronic industries. It has extremely lower iron, Potassium and sodium oxide.	
Chemical property					
Sio2	99.9	99.5	99.2		
Fe2O3	50ppm	100ppm	200ppm		
Al2O3	150ppm	200ppm	250ppm		
Na2O	30ppm	50ppm	100ppm		
K2O	30ppm	50ppm	100ppm		
Mgo	10ppm	20ppm	50ppm		
CaO	30ppm	50ppm	100ppm		
Magnetic	10ppm	50ppm	100ppm		
Physical property					
PH	6				
Bulk Density	2.18-2.2g/cc			Size available:	
Melting temperature @ 1760C		ISO: 0-1/1-3/3-5/0-0.2/0.2-05/0.5-1			
Softening temperature @ 1650		ASTM: 4x10/ 10x20/20x50/50x100mesh			
LTE co-eff	5x10⁻⁷			150F, 120F, 170F, 200F, 325F	
20-700C	Extremely low thermal expansion				
Mineralogy					
Amorphous glass > 99.9%				Pack available	
Cristobalite is Nil				1000KG, 1200KG SUPER SACK	
				25KG BAG IN BIG BAG, 25KG BAG ON PALLET	
Application					
Fused silica is amorphous silica, which has extremely low thermal conductivity and excellent shock resistance and higher refractoriness, so it was widely used in investment casting due to its extremely low thermal expansion, it was also used in casting fused silica nozzles, rollers, glass furnaces castable and bricks. In the mean while the super grinded powder also has a wide application in micro-electronic industries for sealing of SLSI, epoxy stuffing.					
<ul style="list-style-type: none"> ● Fused silica crucible for silicon ingot ● Fused silica nozzle for steel industry ● Fused silica lining, ramming for iron foundry ● Investment casting sand and flour ● Fused silica rollers for ceramics ● Monolithic castable for non-ferrous metal runner ● Fused silica bricks with zero expansion and thermal shock resistance ● Electronic sealing ● Anti-acid, anti-chemical erosion for petrol-chemical refining 					

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