

HUANGHE MINERALS CO.,LIMITED		Version: 2020
PRODUCTS SPECIFICATION		Code: T/QA
Product	Silica Fume/Zircon sand/ Fused ZrO2	Origin: China /FJ/HN/XJ

Code	Silica Fume				Zircon sand	Monoclinic
	SIF AZ	SIF96	SIF94	SIF92	ZrO2-66	Fused Zirconia-99
Chemical						
Al2O3	0.5	0.5-1	0.5-1	0.5-1	0.15	0.1
Fe2O3	0.2	0.3-0.5	0.3-0.5	0.5	0.05	0.04
SiO2	93-95	95-97	93-95	91-93	32.55	0.1
Na2O+K2O	0.01	0.3-1.0	0.5-1.5	0.5-2	0.01	
CaO+MgO	0.01	0.5-1.0	0.5-1.5	0.5-2	0.04	
Carbon	0.2	1-2	1-2	1-2		
LOI	0.5	2	2	2	0.2	
ZrO2	3-5	Nil	Nil	Nil	66.56	99
Physical						
PH	3-5	5-7	6-8	6-8		
Bulk Density	450kg/M ³	350kg/M ³	350KG/M ³	350KG/M ³	4.7G/CC	
Spec surface	9m ² /g	18m ² /g	20m ² /g	20m ² /g		
45u residue	0.5	2	2	3		
Appearance	White	Pale grey	Grey	Grey	Beige	yellow
Particle size	D50=1u D90=10u	D50=0.5u D90=6u	D50=0.5u D90=6u	D50=0.6u D90=6u	80-120mesh 325mesh	Bubble zirconia Or customs size
Pack	1. In 1mt square super-sack 2. 25kg/50kg small bags in 1mt square super-sack / 25/50kg small bags on pallets wrapped.					
Application						
<ul style="list-style-type: none"> silica fume will increase the flowability, Lower the water adding during installation, reduce the porosity and increase the strength of castable, precast shapes, make installation easier. Zircon sand and flour are widely used as investment casting, refractory castable, due to its high refractoriness (2400C), low thermal expansion, good thermal conductivity and smooth shape to get perfect casting surface , fused zirconia was used in fused AZS, nozzle, and sliding plate 						
Description						
<ul style="list-style-type: none"> Silica fume (micro silica) is an ultrafine amorphous spheres shape silicon dioxide, a by-product of producing silicon metal or ferro-silicon or disilicate zirconia. When the quartz or zircon sand was fused in electric arc furnaces in over 2000C, the quartz (SiO2) will be melted and being reduced by carbon sources to get liquid silicon metal, $SiO_2+2C=Si+2CO$ and also $SiO_2+C=SiO+CO$ during fusing, the SiO in steam or gas state inside the furnaces and will be evaporated and vented out of furnaces, the SiO steam will be cool down in the pipe lines and react with oxygen in the air, it will be oxidized to SiO2 again, $2SiO+O_2=2SiO_2$ which is the sphere shaped fume and being collected, that is silica fume, the collected silica fume will be further classified and processed and get the commercial silica fume of different grade. Fused monoclinic zirconia is obtained by fusing Zircon sand in electric furnace with reducing desilication pricess, widely used in refractory, ceramic pigment zircon nozzle, sliding plate 						

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