

Product Specification Sheet

Fused Ceramic Sand (Ceramsite)

[Chart 1]

No. SMMP001-0

Other Names		Ceramic Sand, Ceramic Foundry Sand, Fused Ceramsite, Alumina Sand, Cerasand			
Items/Grades		FCS-G	FCS-L	FCS-S	FCS-T
Chemical Compositions (%)	Al ₂ O ₃	68-73	70-75	75-77	77-82
	Fe ₂ O ₃	≤4	≤3	≤2.5	≤2
	SiO ₂	18-25	18-25	10-20	10-20
	TiO ₂	≤4	≤4	≤3	≤2.5
	K ₂ O+Na ₂ O	≤2	≤1.5	≤1	≤0.6
Physical Properties	Angular Coefficient	≤1.1			
	Bulk Density (g/cm ³)	1.8-2.1			
	Expansion Rate (%)	0.13 (heated at 1,000 °C, 10 minutes)			
Particle Size		a. Foundry Sand: AFS20, 25, 35, 40, 45, 50, 55, 60, 65, 75, 85, 90, 100, 120, 125, 165; b. Foundry Coating Material to replace zircon flour: 180mesh, 200mesh, 280mesh; c. Ladle Filler Sand to partially replace chromite sand: 0.5-2mm (recommended); d. Sand Blasting: 1.0mm, 1.2mm, 1.4mm, 1.7mm, 2.0mm & 2.5mm or AFS10, 15 & 20; e. Raw Material for Ceramic Filter: size to be negotiated with the buyers.			
Packing		1,000-1,250kg in one jumbo bag, 20-25MT in 1x20'fcl			
Photos for Reference					

[Chart 2]

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Particle Size Distribution for Foundry Sand Application											
Fineness Mesh μM		AFS15 (13-17)	AFS25 (20-30)	AFS30 (25-35)	AFS40 (35-45)	AFS50 (45-55)	AFS60 (55-65)	AFS75 (70-80)	AFS85 (80-90)	AFS100 (90-110)	AFS120 (110-130)
14	1180	0-20	0-2	0-2	---	---	---	---	---	---	---
18	850	50-70	0-10	0-10	---	---	---	---	---	---	---
26	600	20-40	30-50	20-40	0-5	0-2	0-1	---	---	---	---
36	425	0-2	30-50	40-60	30-50	10-30	0-10	0-1	---	---	---
50	300	---	0-5	0-20	35-55	15-35	10-30	0-10	≤0.3	---	---
70	212	---	---	0-5	0-20	20-40	25-45	5-25	5-25	0-3	---
100	150	---	---	0-2	0-10	0-20	15-35	25-45	25-45	10-25	0-10
140	106	---	---	---	0-5	0-10	0-20	20-40	25-45	40-60	30-50
200	75	---	---	---	---	0-2	0-5	0-10	5-20	10-20	40-60
281	63	---	---	---	---	---	---	0-5	1-3	0-10	0-15
Pan	Pan	---	---	---	---	---	---	≤0.5	≤0.3	0-2	0-3



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