



CERAMIC FOUNDRY SAND

Description:

This new developed specific Foundry Sand is produced from the special selected high quality refractory raw material at very high temperature at 2,300 – 2,500°C. Our these ACFS sand has excellent solid cores with high strength and very low resin addition rates. The materials has excellent crystalline with formula is 5Al₂O₃-SiO₂.

Application:

Shell moulds and cores for casting gray, Malleable and nodular cast iron, alloyed steel and carbon steel, non-ferrous metals, etc.

The Main Advantage:

- Stable quality on the chemical composition
- Perfect grain round shape and various grain sizes
- High gas permeability
- High temperature resistance
- Good break down and fast curing and good release

PARTICLE SIZE DISTRIBUTION

MM	MESH	RETENTION %														
		20/30	30/50	40/70	40/100	50/100	50/140	70/140	100/200	100/270	140/270					
1.7	+10	≤2	≤2													
0.85	+20	35-50	15-40													
0.60	+30	40-60	30-55	≤10	≤3											
0.425	+40	≤10	15-35	25-45	10-25	≤10	≤8									
0.30	+50		≤3	20-40	25-40	10-30	10-25	≤10	≤3	≤2						
0.212	+70			5-25	25-45	30-50	20-45	10-25	10-35	5-20	≤5					
0.15	+100			≤7	10-25	15-35	20-45	25-45	35-55	30-50	5-25					
0.106	+140			≤5	≤10	≤15	5-20	15-35	15-35	25-45	40-60					
0.075	+200				≤5	≤5	≤7	≤15	≤10	5-20	25-40					
0.053	+270					≤2	≤2	≤5	≤5	≤8	≤15					
PAN						≤1	≤1	≤2								
AFS		15-20	15-25	35-40	45-55	55-65	60-70	75-85	95-115	115-136	155-175					

PACKAGING: 1MT big bag

Chemical Composition:

Al ₂ O ₃	70.0%min
SiO ₂	25.0%max
Fe ₂ O ₃	5%max
TiO ₂	3.5%max



Physical Character:

Grain shape	Perfect round ball shape
Color	Brown-Black
Angle index	1.1 max
Size rang	0.053-3.36mm
Loose Bulk Density	1.9 – 2.1 g/cm ³
Refractoriness	2050°C
Liner thermal expansion	(200°C - 1000°C) 5×10 ⁻⁶ /°C

Applications:

1	Widely used in foundry technique like resin-bonded sand, sodium silicate sand, and clay- bonded sand for sand core and casting mould making
2	Replace chromite sand and widely used in sand core making like jacket core, oil duct core, tappet core of engine.
3	Replace chromite sand for steel casting facing sand and sub-layer of molding sand (backing sand).
4	Widely used as dry sand and sand box for EPC process and V method of casting processes.
5	Widely used as the main raw materials of advanced refractory products (Ladle drainage sand, gravity casting material, casting coating, etc.).
6	Widely used as cleaning sand for copper and aluminum alloy castings.

PS: The main performance comparison of ceramic foundry sand, Chromite sand and Zircon Sand:

PH Value	7.65	4.56	8.24
Bulk Density(g/cm)	1.95-2.05	2.9-3.1	2.6-2.7
True Density(g/cm)	3.4	4.4-4.71	3.9-4.8
Shape	spherical	Irregular	Irregular
Binder into water (Waterglass +CO ₂ Hardness)	3-4%	7-8%	7-8%

PICTURE OF CERAMIC FOUNDRY SAND



PICTURE OF PACKAGE

