Foundry Ceramic Bead

Chemshun foundry ceramic bead also called Casting Ceramic beads is a high temperature (up to 1800 degree centigrade) foundry material with the spherical ceramic beads. With the excellent advantage of no crushing during foundry process and more than 50 times regenerative using, It's become a popular new generation foundry ceramic beads on worldwide casting market. Using Chemshun foundry ceramic bead, the Casting industry can successfully hit the mark of zero of solid waste during the casting process, meanwhile the surface of casting and quality of casting big improved. Chemshun Foundry Ceramic Bead is a China environmental protection intelligent casting an important pushing hands.

Chemshun Foundry Ceramic Beads features:

Raw material : Chemshun foundry ceramic beads is made of mullite crystile, Al2O3 content is around 45% (wt), Fe2O3<1% (wt). The material is the shell-shaped with uniform composition and compact structure.

Characters:

>Uniform composition and stable grain size distribution

>Excellent Angle Coe, roundness shape, excellent fluidity and filling efficiency made it suitable for all special shape of cast

>Excellent recycling performance, up to more than 50 times cycles.

>High refractoriness (up to 1800 C)

>Low thermal expansion rate

>Excellent resistance to crushing, wearing and thermal shock

>Excellent collapsibility and not easy to sand, but cleaning casting easily

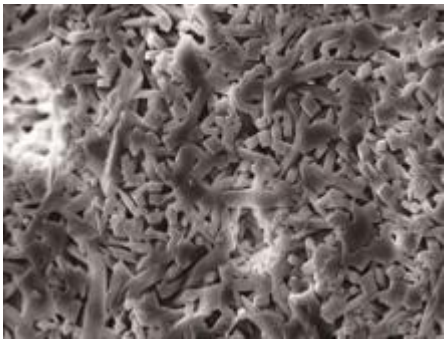
>A Clean and environmental protection material, the basic realization of zero emissions of solid waste.

Application:

>Special casting (investment casting, casting a variety of ways disappear film, V method, VRH method, etc.), particularly suitable for low-expansion temperature coated sand production

>Sand casting

>Peening



Typical Chemical Composition

	Al	Si	Fe	Ti	Mg	Ca	Other
CCB-1	43.5%	53.0%	1.5%	0.55%	0.3%	0.2%	< 0.2%
CCB-2	50.0%	47.0%	1.2%	0.50%	0.3%	0.2%	Microscale
CCB-3	60.0%	38.0%	1.0%	0.45%	0.3%	0.2%	Microscale

Per-formance Index

Angular	≤ 1.1		
Refractoriness	CCB-1 :1750℃	CCB-2 : 1800℃	CCB-3 : 1825℃
Heap Density	CCB-1 :1.40(g/cm 3)	CCB-2 :1.45(g/cm 3)	CCB-3 :1.55(g/cm 3)
Thermal Expansion Rati v	0.11%		
PHvalue	7-8		
Thermal Conductivity	5.5W/M·K (1200℃)		