

Silicon Barium Inoculant

Silicon barium inoculant is an artificial composite ferro alloys product. The main application is with the production process of cast iron. 80% of Chinese foundry manufacturers are using barium-containing inoculants. In practice, Si-Ba inoculants can improve the performance of the product. Thus, it can be widely used in actual production.

Grades	mm	Chemical Component%				
		Si	Ba	Ca	Re	Fe
Ba3-65	0.5-2.0	60-65	2-4	0.5-2.5	-	-
Ba5-60	2-5	55-60	4-6	0.5-2.5	-	-
BaRe5-60.5	3-8	55-60	4-6	0.5-2.5	4-6	-
Ba10-55	0.2-3	50-55	8-12	3.5-5.5	-	-
	2-8					
Ba15-50	0.2-3	45-50	13-17	3.5-5.5	-	-
	2-8					
Ba20-45	0.2-3	40-45	18-20	3.5-5.5	-	-
	2-8					
Ba3-50	0.2-3	46-54	1.5-4	1-3	3-5	-
	2-8					
Si72	0.3-2	70-72		1-3	-	-

Applications of Silicon Barium Inoculant

1. Cast iron industry: When producing ductile iron and gray cast iron, silicon barium can improve the fluidity of molten iron. Improve the form of molten iron impurities. And promote the application of graphite spheroidization.
2. Steelmaking industry: Putting silicon barium inoculant can play a good deoxidation effect

Silicon Magnesium Nodulizer

An additive that crystallizes graphite in cast iron into a spherical shape, which is called a "nodulizer" or a "spheroidizing agent" . Including rare earth silicon-magnesium alloys, calcium alloys, pure magnesium alloys, etc.

The casting thickness of each grade of rare earth magnesium ferrosilicon alloy is not more than 100mm. The standard particle size of rare earth magnesium ferrosilicon alloy is 5~25mm and 5~30mm. Depending on the application, customers can specify special particle sizes such as 5~15mm, 3~25mm, 8~40mm, 25~50mm, etc.

Specification	Chemical Component%						
	Re	Mg	Ca	Si	Mn	Ti	Fe
FeSiMg8Re3	2-4	7-9	2-3.5	44.0	1.0	1.0	-
FeSiMg8Re3	4-6	7-9	3	44.0	1.0	1.0	-
FeSiMg8Re3	6-8	7-9	3	44.0	1.0	1.0	-

Rare earth silicon magnesium ferro alloy is a good spheroidizing agent. Mainly used in the production of ductile iron. Ductile iron is widely used in machinery manufacturing such as automobiles and tractors.