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CaSi Cored Wire

What is the CaSi cored wire ?

Silicon-calcium coated wire is made by mixing calcium metal and iron powder in a certain proportion. In detail, the core wire is composed of 25-35% calcium particles and the rest of the mixture of iron powder as the core material, made of strip steel as the cover. Its main function is as deoxidizing and desulfurizing agent in steelmaking process.

How to produce CaSi cored wire ?

The main raw material of silicon-calcium coated wire is silicon-calcium powder, which is used as the core material, and the outer skin is steel skin, which is pressed by professional wire pressing machine.

Specification:

Wire Types	Main Composition	Diameter	Thickness of Strip steel	Content Weight	Uniformity
	%	mm	mm	g/m	%
Ca-Fe	Ca28-35	13	0.4	230-250	2.5-5
Pure Ca	Ca100	13	0.4	125	2.5
Ca-Al-Fe	Ca26-30Al2-5	13	0.4	240	2.5
Si-Ca	Si55Ca30	13	0.4	230	2.5
C	C95S＜0.5	13	0.4	150	2.5
Si-Ca-Ba	Si55Ca15Ba15	13	0.4	220	2.5
Ca-Fe	Ca28-35	13	0.4	230-250	2.5
Si-Al-Ba	Si35-40Al2-16Ba9-15	13	0.4	215	2.5

Advantage:

1. Adding core wire in the process of steelmaking can avoid the formation of long sulfide inclusions, so as to improve the anisotropy of steel;
2. With the help of wire feeding machine, the liquid steel can be quickly input to dissolve and dissolve in the depth of the liquid steel, so as to reduce the blockage of the nozzle and play the role of deoxidation, desulfurization and inclusion removal;
3. It can fine-tune the ingredients, improve the yield of metals and rare earth elements, and ensure the stability of ingredients.
4. Reduce the amount of precious elements added and reduce the refining cost.