

# CaSi (Calcium Silicon) Cored Wire & Grain

Low Cost | High Purity



## CaSi (Calcium Silicon Wire) Cored Wire: W-CaSi

Wedge CaSi Cored wire W-CaSi is made by wrapping alloy powder in steel belt. Deoxidation, de-sulphurisation and inclusion modification are some of the essential features in secondary steel refining through injection of calcium alloy in the form of a cored wire.

For aluminum-silicon-killed steels, Calcium treatment by CaSi is normally more economic than by pure Calcium products. For the molten steel, calcium treatment is a must. Calcium is used to transform alumina into low melting point calcium-aluminates, avoiding nozzle clogging as well as to control the shape of oxide and sulfide inclusions. During the course of deoxidation and inclusion transformation, efficient calcium treatment plays a very critical role.

### Main Features & Advantages:

Eliminate alumina nozzle clogging, spheroidize oxide and sulphide inclusions which increases the transverse toughness and strength of steel. Improve steel purity. With its strong affinity for oxygen and sulfur, Calcium is also used as a side effect for deoxydation and desulfurization. It forms CaO first, followed by oxysulfides and finally sulfides CaSi.

- The metal powder is firm and the wire is seamless.
- Adjust and control the active metal and the content of microelement.
- Stable of the alloy performance function, reducing steelmaking cost.
- Improve the mechanical property.
- Injection to facilitate the operation and reduce the operation cost.

Quality		W-CaSi9	W-CaSi13	W-CaSi16
Diameter of Wire	mm	9	13.6	16.8
Filling Rate	g/m	90	240	370
Ca	%	30 - 40	30 - 40	30 - 40
Si	%	60 - 70	60 - 70	60 - 70
Al	%	1.5	1.5	1.5
C	%	0.45	0.45	0.45
P	%	0.04	0.04	0.04
S	%	0.04	0.04	0.04
<b>Coil Vertical Details</b>				
Coil Weight	MT	2	2	2
ID	mm	530	530	530
OD : 1100 mm	mm	1100	1100	1100
Width / Height	mm	1072	1072	1072
Powder Weight	g/m	238	238	238
<b>Packing</b>	As per customer requirement. Both type Vertical & Horizontal With steel strip bundled on metal pallet.			







## Wedge SSPL

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