

ULTRACORE[®] BRAND CALCIUM SILICON CORED WIRE

Calcium Silicon alloy is widely used to improve the quality, castability and machinability of steel.

Calcium is a powerful modifier of oxides and sulfides. It transforms alumina inclusions into complex Calcium aluminate compounds, improving the castability of the steel in a continuous casting process. Other benefits include reduction in deposits of solid inclusions inside of the tundish nozzles, preventing clogging. Calcium also improves steel's machinability, increasing the life of cutting tools.

This product has been developed for the Calcium treatment of Al-killed, restricted-Silicon-content steels.

Globe Metales, S.A. produces Calcium Silicon Cored Wire, in various diameters to accommodate different customer injection machines and ladle size requirements.

CHEMICAL COMPOSITION:

Element	Guaranteed Range	Typical Analysis
Ca (%)	29.0-33.0	30.0
Si (%)	59.0-63.0	60.0
Al (%)	< 1.0	0.8
C (%)	< 0.6	0.5

For a 13 and 16 mm wire, standard Calcium Silicon linear density is shown in the table below in IS and English units:

Diameter (*)	Grams/meter	Gr Si/meter	Gr Ca/meter	Gr Al/meter	Gr C/meter
13 mm	220	132	66	1.8	1.1
	+- 5%	+- 5%	+- 5%	+- 5%	+- 5%
16 mm	320	192	96	2.6	1.6
	+- 5%	+- 5%	+- 5%	+- 5%	+- 5%
Diameter (*)	lb/ft	lb Si/ft	lb Ca/ft	lb Al/ft	lb C/ft
0.51 in	0.15	0.09	0.045	0.0012	0.0008
(13 mm)	+- 5%	+- 5%	+- 5%	+- 5%	+- 5%
0.63 in	0.22	0.13	0.065	0.0018	0.0010
(16 mm)	+- 5%	+- 5%	+- 5%	+- 5%	+- 5%

(*) 21 mm (0.823 in) wire diameters are available.

SIZING:

Cored Wire is available in 13, 16 and 21 mm diameter with various lengths. Both vertical and horizontal axis orientations are provided to suit customer's particular feeding system.

Diameter	Length	Internal Diameter	External Diameter	Width
13 mm	5000 m	500/600 mm	1200 mm	950 mm
16 mm	3400 m	500/600 mm	1150 mm	1000 mm

Diameter	Length	Internal Diameter	External Diameter	Width
0.51 in (13 mm)	16,400 ft	1.64/1.97 ft	3.94 ft	3.12 ft
0.63 in (16 mm)	11,152 ft	1.64/1.97 ft	3.78 ft	3.28 ft

PACKAGING:

For protection from moisture and damage during transportation and storage, coils are encased in a steel basket, placed on wooden pallets and shrink wrapped in plastic film. Ten coils can be shipped in a 20 ft sea container. Other packing options are available upon request.

QUALITY:

Calcium Silicon Cored Wire is produced under Quality Controlled conditions in our San Luis Manufacturing Plant, certified to ISO9000/2000.

MATERIAL SAFETY DATA SHEET:

Available to Globe customers. Please ask your sales representative.

REV-Aug/07