

ULTRACORE[®] BRAND CALCIUM SILICON 60% CALCIUM 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 Continuous Cast steels, avoiding deposit of solid inclusions inside of the Tundish nozzles and preventing clogging. Calcium also improves steel machinability, increasing the life of cutting tools.

This product has been developed for the Calcium treatment of Al-killed restricted-Silicon-content steels. Excellent Calcium recoveries are obtained despite the absence of silicon.

CHEMICAL COMPOSITION:

Calcium Silicon powder specification and typical composition are highlighted below.

Element	Guaranteed Range	Typical Analysis
Ca (%)	58.0 – 63.0	59.0
Si (%)	30.0 – 33.0	31.0
Al (%)	< 1.5	0.8
C (%)	< 0.6	0.5
P (%)	< 0.05	0.03
S (%)	< 0.06	0.03

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

Diameter (*)	Grams/meter	Gr Ca / meter	Gr Si / meter	Gr Al/ meter	Gr C/ meter	Gr P/ meter	Gr S/ meter
13 mm	155 +- 5%	91.4 +- 5%	48 +- 5%	1.2 +- 5%	0.77 +- 5%	0.05 +- 5%	0.05 +- 5%
16 mm	189 +- 5%	113.4 +- 5%	58.59 +- 5%	1.5 +- 5%	0.94 +- 5%	0.06 +- 5%	0.06 +- 5%

Diameter (*)	lb/ft	lb Si/ft	lb Ca/ft	lb Al/ft	lb C/ft	lb P/meter	lb S/meter
0.51 in (13 mm)	0.10 +- 5%	0.06 +- 5%	0.03 +- 5%	0.0008 +- 5%	0.0005 +- 5%	0.00003 +- 5%	0.00003 +- 5%
0.63 in (16 mm)	0.12 +- 5%	0.07 +- 5%	0.04 +- 5%	0.001 +- 5%	0.0006 +- 5%	0.00004 +- 5%	0.00004 +- 5%

SIZING:

We offer Cored Wire in 13 and 16 mm diameters and various lengths. Both vertical and horizontal axis orientations are available to suit customer's particular feeding system.

Typical Free Coil dimensions are as follows:

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)	11,154 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. Other packaging options are available upon request.

QUALITY:

Calcium Silicon 60% Calcium 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.

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