

ULTRACORE[®] BRAND ALUMINUM CALCIUM SILICON CORED WIRE

Calcium is a powerful modifier of oxides and sulfides. It transforms alumina inclusions into complex calcium aluminate compounds thereby improving the castability of continuous cast steels. This transformation also minimizes deposits of solid inclusions inside tundish nozzles, preventing clogging. Further benefits include improved steel machinability with resulting increased cutting tool life. This product has been developed for Ca treatment of Al killed restricted Silicon content steels.

Globe Metales, S.A. produces Aluminum Calcium Silicon (AlCaSi) Cored Wire, in various diameters to accommodate customers' injection machines and ladle size requirements.

CHEMICAL COMPOSITION:

Element	Guaranteed Range	Typical Analysis
Ca (%)	28.1 – 31.1	29.6
Si (%)	29.6 – 32.7	31.2
Al (%)	37.2 - 41.2	39.2

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

Diameter (*)	Grams/meter	Gr Ca/meter	Gr Al/meter	Gr Si/meter
13 mm	195	57.7	76.4	60.8
	+- 5%	+- 5%	+- 5%	+- 5%
Diameter (*)	lb/ft	lb Ca/ft	lb Al/ft	lb Si/ft
0.51 in (13 mm)	0.133	0.039	0.052	0.042
	+- 5%	+- 5%	+- 5%	+- 5%

SIZING:

Cored Wire is available in 13, 16 and 21 mm diameter and a variety of lengths. Both vertical and horizontal axis orientations are available to suit customer's particular feeding system. Typical Free Coil dimensions are shown below (ex.13 mm/0.15 in):

Diameter	Length	Internal Diameter	External Diameter	Width
13 mm	5000 m	500/600 mm	1200 mm	950 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

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:

Aluminum 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.

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