

## ULTRACORE<sup>®</sup> BRAND ALUMINUM FERRO CALCIUM 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 Calcium treatment of Al-killed, silicon-free steels. Excellent Calcium recoveries are obtained despite the absence of Silicon.

We produce Aluminum Ferro Calcium (AlCaFe) Cored Wire in various diameters to accommodate customers' injection machines and ladle size requirements.

### CHEMICAL COMPOSITION:

<i>Element</i>	<i>Guaranteed Range</i>	<i>Typical Analysis</i>
Ca (%)	28.5 – 31.5	30.0
Fe (%)	29.5 - 30.5	30.0
Al (%)	38.0 - 42.0	40.0

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

<i>Diameter (*)</i>	<i>Grams/meter</i>	<i>Gr Ca/meter</i>	<i>Gr Al/meter</i>	<i>Gr Fe/meter</i>
<b>13 mm</b>	195	58.5	78.0	58.5
	+ - 5%	+ - 5%	+ - 5%	+ - 5%
<i>Diameter (*)</i>	<i>lb/ft</i>	<i>lb Ca/ft</i>	<i>lb Al/ft</i>	<i>Lb Fe/ft</i>
<b>0.51 in</b>	0.133	0.040	0.053	0.040
<b>(13 mm)</b>	+ - 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 feeding system. Typical Free Coil dimensions are shown below (ex. 13 mm/0.15 in):

<b>Diameter</b>	<b>Length</b>	<b>Internal Diameter</b>	<b>External Diameter</b>	<b>Width</b>
<b>13 mm</b>	5000 m	500/600 mm	1200 mm	950 mm
<b>Diameter</b>	<b>Length</b>	<b>Internal Diameter</b>	<b>External Diameter</b>	<b>Width</b>
<b>0.51 in (13 mm)</b>	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 Ferro 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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