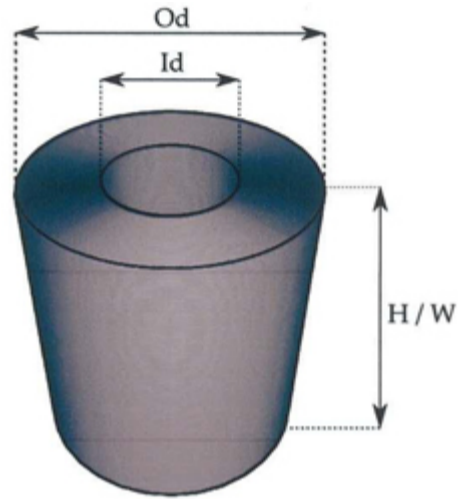


# NAGPUR PYROLUSITE P. LTD

## Calcium Iron (CaFe) Cored Wire

Calcium Iron Cored Wires are Added In Low Silicon Steel Production For High Calcium Metal Yields in Molten Steel With the Purpose of Deoxidation; De-Sulphurization & Inclusion Modification of the Steel. Typically Used for Treatment of Aluminium Kilned Steel. This Cored Wire is a Physical Blend of Pure Calcium Metal Granules and Pure Iron Granules in Desired Ratio.



### Wire Specification

Diameter (mm)	Shape	Powder Fill(Gms/mt)
13 (+/- 0.2)mm	Round	280 (+/- 10)

(Other Wire Dimensions Available: 9 mm & 16 mm)

### Composition of CaFe Granules:

GRADES:	CaFe 20%	CaFe 30%
CA:	20%.	30%.
SI:	NIL	NIL
AL (Max):	NIL	NIL
C:	0.10%.	0.10%.
S:	0.03%.	0.03%.
P:	0.03%.	0.03%.
Fe:	Balance	Balance

### Powder Specifications:

	Density(gm/cc)	Melting Point	Size (mm)
Calcium	1.54 gm/cm <sup>3</sup>	840 - 845 Celcius	-1.4 + 0.025
Iron Powder	3.00 gm/cm <sup>3</sup>	1530 Celcius	-1.4 + 0.025

### Ca Treatment Benefits:

1. Improved Surface Quality & Steel Castability In Continuous Casting Process.
2. Improved Mechanical Property of Machinability at High Cutting Speeds.
3. Excellent Affinity Towards Oxygen & Sulphur thereby excellent Metal for Internal Slag Removing thereby Increasing Quality of Steel.
4. Reduces Caster Nozzle Clogging.

### Shopping List

#### Coil Specifications:

<b>Cored Wire Diameter</b>	<b>13 MM</b>
<b>Powder Wt.</b>	1200 Kg
<b>Strip Wt.</b>	700 Kg
<b>Net Wt.</b>	1900 Kg
<b>Length (Mtrs)</b>	4400 Mtr
<b>Internal Diameter</b>	650 MM
<b>External Diameter</b>	1200 MM
<b>Height</b>	900 MM

#### Strip Specifications :

Grade	Diameter (mm)	Thickness (mm)
EDD IS-513	9 +/- 0.5	0.30 - 0.35 +/- 0.03
	13 +/- 0.2	0.30 - 0.35 +/- 0.03
	16 +/- 0.2	0.35 - 0.40 +/- 0.03

Flipping Coil: Horizontal & Vertical

Packing : In Flipping Cage Mounted On Wooden/ Mild Steel Pallet; Stretch Wrapped

Storage: In Cool; Dry & Covered Area

Markings: Labels ; Stickers



Web: [www.nagpurpyrolusite.com](http://www.nagpurpyrolusite.com)

Email: [aditya@nagpurpyrolusite.com](mailto:aditya@nagpurpyrolusite.com); [nppltd@yahoo.com](mailto:nppltd@yahoo.com)

Mob: +91 9823074264

# NAGPUR PYROLUSITE P. LTD

## Solid Calcium (Ca) Cored Wire

Solid Calcium Cored Wire helps in Reduction of Overall Ca Treatment Costs, as Ca Levels Attained by Using This is in Range Between 20-30% for Al; Al-Si & Si Kilned Steel- Compared to 13-19% for Conventional CaSi/ CaFe Treatments. Also Zero Gas Pick-up During Wire Injection in Molten Steel & Lower Mg Content Helps in Reduced Splashing & Fuming.

### Wire Specification

Diameter (mm)	Shape	Powder Fill(Gms/mt)
9 (+/- 0.2)mm	Round	50 (+/- 5)

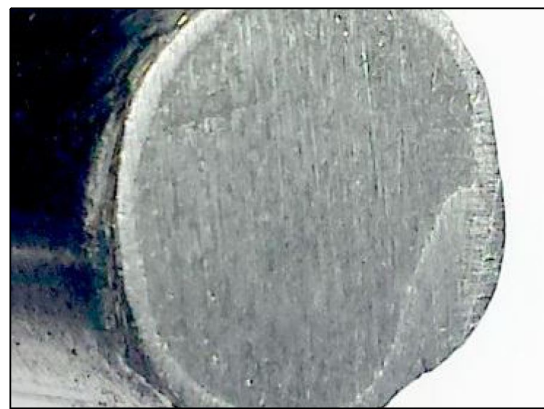
### Composition of CaFe Granules:

GRADES:	CA PURE	Cored Wire Diameter	9MM
CA:	99%.	Powder Wt.	500 KG
MG:	0.03%.	Strip Wt.	2400 KG
AL (Max):	NIL	Net Wt.	2900 KG
CU:	0.01%.	Length (Mtrs)	10000 MTR
S:	NIL	Internal Diameter	650 MM
K + NA	0.07%.	External Diameter	1200 MM
Fe:	0.01%.	Height	900 MM

### Powder Specifications:

	Density	Melting Point	Size (mm)
Calcium WIRE	68-70 Grams/ Meter	840 - 845 Celcius	9 mm

Solid Ca Cored Wire Is Introduced during End of Refining Process just Before CCM; With Wire Injection Speed in Range of 110-140 Meters/ Minute. Typical Addition is in range of 0.05-0.08 Kg/ Ton of Liquid Steel & Ca Level Attained in Liquid Steel with above rate of Addition Should be 15-30 PPM.



### Strip Specifications :

Grade	Diameter (mm)	Thickness (mm)
EDD IS-513	9 +/- 0.5	0.70 +/- 0.03MM

Flipping Coil: Horizontal & Vertical

Packing : In Flipping Cage Mounted On Wooden/ Mild Steel Pallet; Stretch Wrapped

Storage: In Cool; Dry & Covered Area

Markings: Labels ; Stickers



Web: [www.nagpurpyrolusite.com](http://www.nagpurpyrolusite.com)

Email: [aditya@nagpurpyrolusite.com](mailto:aditya@nagpurpyrolusite.com); [nppltd@yahoo.com](mailto:nppltd@yahoo.com)

Mob: +91 9823074264

# NAGPUR PYROLUSITE P. LTD

## Ferro Silicon Magnesium (FeSiMg) Cored Wire Cored Wires for Iron Foundries

Mg-FeSi Cored Wires are a major Addition to Ductile Iron Foundries Focusing on Improved Recoveries of Mg; Reduced Fumes & Automation for Ladle Inoculation & Spheroidization. Ease Of Operation (Magnesium Addition) into Melt, Along with Higher Recoveries & Precise Control of Process Makes Mg-FeSi Cored Wires Apt for Usage in Todays Modern & Efficient Foundries.

### GRADE CHART:

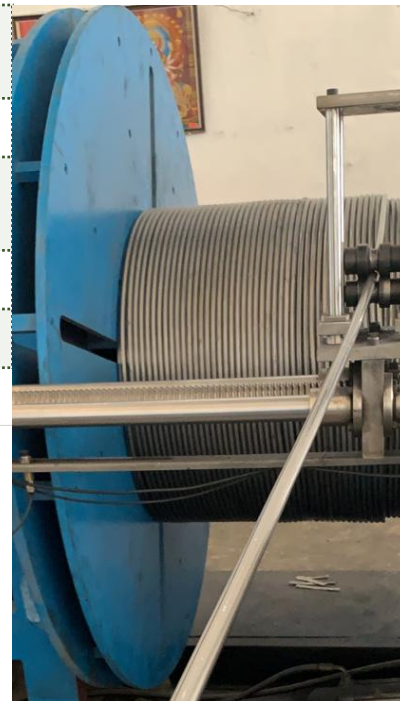
GRADES:	MG	SI	AL (Max)	Re	Ca	Others (Max)	Fe
<b>MG 20</b>	20-22%	45-46%	0.80%.	1-3%	1 - 3%	1%.	Balance
<b>MG 30</b>	30-32%	25-33%	0.80%.	0.6 - 3%	1 - 3%	1%.	Balance
<b>MG 40</b>	38-42%	22-30%	0.80%.	0.6 - 3%	1 - 3%	1%.	Balance
<b>MG 50</b>	50-52%	25-30%	0.80%.	1 - 3.5%	1 - 3%	1%.	Balance
<b>MG 80</b>	78-82%	7-12%	0.80%.	1 - 3.5%	1 - 3%	1%.	Balance

### Powder Specifications:

Material	Density (Grm/cc)	Melting Point	Boiling Point	Size (MM)
FeSiMg	4.3 - 4.8	920 - 1200	—	-1.4 + 0.3
Fe	7.8	1540	2860	-0.6 + 0.045
Si	2.4	1412	3270	-1.4 + 0.2
Mg	1.74	650	1090	-1.4 + 0.2

### Wire Specification

Diameter (mm)	Shape	Thickness
9 (+/- 0.2)mm	Round	0.4mm (+/- 0.03)
13 (+/- 0.2)mm	Round	0.4mm (+/- 0.03)



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Email: [aditya@nagpurpyrolusite.com](mailto:aditya@nagpurpyrolusite.com); [nppltd@yahoo.com](mailto:nppltd@yahoo.com)

Mob: +91 9823074264

# NAGPUR PYROLUSITE P. LTD

## Ferro Silicon Magnesium (FeSiMg) Cored Wire Cored Wires for Iron Foundries

### Cored Wire & Coil Specification:s

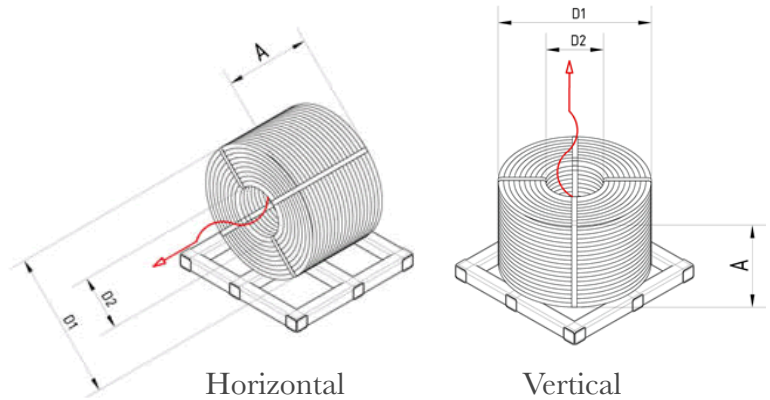
GRADES:	20	30	40	50	80
<b>Powder Fill (Grams/ Mtr)</b>	120 +/- 10	110 +/- 10	100 +/- 10	95 +/- 10	70 +/- 10
<b>Powder Wt:</b>	500 Kg	500 Kg	500 Kg	500 Kg	500 Kg
<b>Strip Wt:</b>	505 Kg	595 Kg	640 Kg	695 Kg	850 Kg
<b>Net Wt:</b>	1005 Kg	1095 Kg	1140 Kg	1195 Kg	1350 Kg
<b>Length:</b>	4166 Mtr	4545 Mtr	5000 Mtr	5555 Mtr	7142 Mtr
<b>Internal Dia: (D1)</b>	650 MM	650 MM	650 MM	650 MM	650 MM
<b>External Dia: (D2)</b>	1000 MM	1050 MM	1050 MM	1080 MM	1200 MM
<b>Height: (A)</b>	630 MM	630 MM	630 MM	630 MM	630 MM

Flipping Coil: Horizontal & Vertical

Packing : In Flipping Cage Mounted On Wooden/ Mild Steel Pallet; Stretch Wrapped

Storage: In Cool; Dry & Covered Area

Markings: Labels ; Stickers



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# NAGPUR PYROLUSITE P. LTD

## Calcium Silicide (CaSi) Cored Wire

Calcium Silicide Cored Wires are Added In Silicon Steel Production For High Calcium Metal Yields in Molten Steel With the Purpose of Deoxidation; De-Sulphurization & Inclusion Modification of the Steel. The Purpose of Using CaSi Wire is to Obtain Higher Yields of Ca in Molten Steel as compared to Conventional Method of Adding CaSi Lumps at Bottom of Ladle, which have much Lower Density (2.5gm/cc).



### Wire Specification

Diameter (mm)	Shape	Powder Fill(Gms/mt)
9 (+/- 0.5)mm	Round	105 (+/- 10)
13 (+/- 0.2)mm	Round	230 (+/- 10)
16 (+/- 0.2)mm	Round	390 (+/- 10)

### Composition of CaSi Granules:

GRADES:	FeSi Ca 28%	FeSi Ca 30%	FeSi Ca 32%
CA:	28 - 31%	30 - 33%	32 - 34%
SI:	55 - 65%	55 - 65%	55 - 65%
AL (Max):	1.50%	1.50%	1.50%
C:	1%.	1%.	1%.
S:	0.05%.	0.05%.	0.05%.
P:	0.06%.	0.06%.	0.06%.
Fe:	Balance	Balance	Balance

### Powder Specifications:

Density(gm/cc)	Melting Point	Size (mm)
2.5 - 2.7 gm/cc	1030 - 1200 Celcius	-1.4 + 0.025

### Ca Treatment Benefits:

1. Improved Surface Quality & Steel Castability In Continuous Casting Process.
2. Improved Mechanical Property of Machinability at High Cutting Speeds.
3. Excellent Affinity Towards Oxygen & Sulphur thereby excellent Metal for Internal Slag Removing thereby Increasing Quality of Steel.

### Coil Specifications:

Cored Wire Diameter	9 MM	13 MM	16 MM
Powder Wt.	1000 Kg	1000 Kg	1000 Kg
Strip Wt.	980 Kg	630 Kg	710 Kg
Net Wt.	1980 Kg	1630 Kg	1710 Kg
Length (Mtrs)	9520 Mtr	4337 Mtr	2631 Mtr
Internal Diameter	650 MM	650 MM	650 MM
External Diameter	1190 MM	1200 MM	1230 MM
Height	900 MM	900 MM	900 MM

### Strip Specifications :

Grade	Diameter (mm)	Thickness (mm)
EDD IS-513	9 +/- 0.5	0.30 - 0.35 +/- 0.03
	13 +/- 0.2	0.30 - 0.35 +/- 0.03
	16 +/- 0.2	0.35 - 0.40 +/- 0.03

Flipping Coil: Horizontal & Vertical

Packing : In Flipping Cage Mounted On Wooden/ Mild Steel Pallet; Stretch Wrapped

Storage: In Cool; Dry & Covered Area

Markings: Labels ; Stickers

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# NAGPUR PYROLUSITE P. LTD

## CARBON (C) CORED WIRE



C	Grade	Powder Chemical Composition (%)				
	C 98	C (Min)	S (Max)	V.M (Max)	Ash (Max)	Moist. (Max)
		98	1	0.5	1	0.5

Powder Specification				
Grade	Density (gm/cc)	Melting Point (°C)	Boiling Point (°C)	Size (mm)
C 98	3.51	3800	3850	-1.445

Strip Specification		
Grade	Diameter (Ø, mm)	Thickness (mm)
EDD IS - 513	13	0.40±0.03

### Wire Characteristics

Grade	Diameter (mm)	Shape	Powder Fill (gms/mt)
C - 98	13±0.2	Round	135±10

### Coil Specification (Flipping Coil - Horizontal & Vertical)

Details	13 mm	
	500	650
Powder Weight (MT)	0.5	0.65
Strip Weight (MT)	0.55	0.72
Net Weight (MT)	1.07	1.37
Length (mtrs)	3703	4444
Internal Diameter (mm)	650	650
External Diameter (mm)	1120	1200
Height (mm)	900	900

### Application:

Used as an Trimming Addition to Add & Adjust the Carbon Content in Molten Steel. Recoveries of More than 90% are Typically Observed when carried out at Temperatures of around 1560-1580 Degree Celsius.

### Packing:

Packing In Flipping Cage Mounted on Steel Pallet; Horizontally or Vertically; Dully Shrink Wrapped & Strapped.



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