

# Ametals Corp.

## Ferro Alloy Cored Wire

| Core Wire                                 | Composition                  | Powder Fill Rate in gram/Meter (avg) |       | Application   |
|---|------------------------------|--------------------------------------|-------|---|
|   |                              | Φ9mm                                 | Φ13mm |   |
| Ferro Calcium Silico (FeCaSi) Cored wire  | 30% Ca, 60% Si, Bal:Fe       | 102                                  | 220   | Inclusion Modifier for improving isotropic properties of steel & avoiding nozzle clogging in continuous casting.                      |
| Calcium Iron (FeCa) Cored Wire            | 30% Ca Bal: Fe               | ---                                  | 250   | Inclusion Modifier for improving isotropic properties of steel & avoiding nozzle clogging in continuous casting for low Silicon steel |
| Calcium Aluminum Iron (CaAlFe) Cored Wire | 40 % Ca, 20 % Al, Bal - Fe   |                                      | 200   | For De-Oxidation along with Modification of inclusions. For low silicon grade steels.   |
| Al Cored wire (Al)                        | 98% Al                       | 90                                   | 200   | Effective De-Oxidation with higher Efficiency   |
| Aluminium Solid Wire                      | 99% Al                       | 110                                  | 215   | Deoxidation and Alloying addition   |
| Calcium Cored Wire                        | 100% Ca                      | 60                                   | 130   | Inclusion Modifier, Avoid nozzle clogging in CC with low Si steel   |
| Sulphur Cored Wire                        | 99% S                        | 95                                   | 200   | Resulphurising and improving machinability of steel   |
| Graphite Cored Wire                       | 99% Fc                       |                                      | 140   | Trimming addition   |
| Lead Cored Wire                           | 99% Pb                       | 360                                  | 870   | Alloying addition for improving machinability of steel  |
| Lead Calcium Carbonate                    | 93% Pb, 7% CaCO <sub>3</sub> | 300                                  | 720   | Alloying addition to improve machinability  |
| Ferro Titanium (FeTi) Cored Wire          | 65-70% Ti, 4.5% Al, Bal:Fe   | 170                                  | 376   | De-Oxidation and De-Gasification of steel, Stabilisation of carbon / nitrogen, Increases formability                                  |

|   |   |     |     |  |
|---|---|-----|-----|--|
| Nitrided Manganese Cored Wire                       | 8% N, 85% Mn, Bal:Fe                            |     |     | Replacement for Nickel in austenitic stain less steel. Increases plasticity of steel                                       |
| Ferro Silico Magnesium Cored Wire                   | 30% Mg,2% Ca, 2% Re,10% Si, Bal:Fe              | 105 | 230 | Spherodiser in S.G. Iron making  |
| Magnesium Calcium carbide Cored Wire Magnesium (Mg) | Mg:CaC <sub>2</sub> ,Mg:Si, Mg:CaSi, Mg:FeSi-Ce | 70  | 160 | For de-sulphurisation in iron For spheroidisation of SG iron.  |
| Magnesium 100% Cored Wire                           | 100% Mg   | 80  | 150 | Spherodiser % Desulphuriser  |
| Iron (Fe)   | 99% Min.  |     | 520 | For better control of superheat in tundish during continuous casting. Temperature optimisation in Tundish                  |
| Ferro-Vanadium (FeV)                                | 50-55% V, 1% Al Max.                            |     | 550 | Alloying addition for secondary hardening in alloy steels  |
| Ferro-Silicon-Zirconium(FeSiZr)                     | 30-35%Zr,55%Si , Bal-Fe                         |     |     | Increases wear resistance, decreases the adverse effect of sulphur and nitrogen.   |
| Ferro-Niobium(FeNb) Cored Wire                      | 60-65% Nb, Bal: Fe                              |     |     | Improves cold ductility Improves grain refinement  |
| Ferro Molybdenum Cored Wire                         | 60% Mo  |     |     | Alloying addition  |
| Tellurium Manganese Cored Wire                      | 70% Te, Bal - Mn                                |     | 425 | Alloying addition to improve machinability   |
| Ferro Boron Cored Wire                              | 18-20% B, Bal:Fe                                | 145 | 310 | Increases hardenability of steel. Even 0.001-0.003 % B can retain some of the Secondary hardening elements in alloy steels |
| Chromium  | Fe Cr: 60-70% Cr                                |     |     | Trimming addition  |
| Silicon   | 75% Si  |     | 275 | Inoculation for Iron Foundry   |
|   |   |     |     |  |

|             |  |  |  |  |
|-------------|--|--|--|--|
| Ca-SI-Ba    |  |  |  |  |
| Ca-SI-Ba-Al |  |  |  |  |
| Re-Mg       |  |  |  |  |
| Re-Mg-Fe-Si |  |  |  |  |

**Packing:- Iron Caged, palletized, polythene sheet wrapped in each coil.**

| WIRE DIAMETER | INTERNAL DIAMETER | OUTER DIAMETER | LENGTH    | WIDTH   |
|---------------|-------------------|----------------|-----------|---------|
| 9MM           | 600MM             | 1300MM         | 8000 Mtr. | 1000 MM |
| 13MM          | 500MM             | 1500MM         | 5500Mtr.  | 1050 MM |

The Cored wire must be kept away from water and humidity, must be stored in Dry place. must be kept far away from fire and heat. It should not come in contact with Acid, vapor, acid smoke.

**Extra Low Carbon Ferro Manganese**

| Grade | Mn%    | C%      | Si%     | P%   | S%       |
|-------|--------|---------|---------|------|----------|
| 70-75 | 70 Min | 0.1 Max | 1.5-3.0 | 0.30 | 0.05 Max |
| 75-80 | 75 Min | 0.1 Max | 1.5-3.0 | 0.30 | 0.05 Max |
| 80-85 | 80 Min | 0.1 Max | 1.5-3.0 | 0.30 | 0.05 Max |

**Low Carbon Ferro Manganese**

| Grade | Mn%    | C%      | Si%     | P%   | S%       |
|-------|--------|---------|---------|------|----------|
| 70-75 | 70 Min | 0.5 Max | 1.5-3.0 | 0.30 | 0.05 Max |
| 75-80 | 75 Min | 0.5 Max | 1.5-3.0 | 0.30 | 0.05 Max |
| 80-85 | 80 Min | 0.5 Max | 1.5-3.0 | 0.30 | 0.05 Max |
| 70-75 | 70 Min | 1.0 Max | 1.5-3.0 | 0.30 | 0.05 Max |
| 75-80 | 75 Min | 1.0 Max | 1.5-3.0 | 0.30 | 0.05 Max |
| 80-85 | 80 Min | 1.0 Max | 1.5-3.0 | 0.30 | 0.05 Max |

**Medium Carbon Ferro Manganese**

| Grade | Mn%    | C%   | Si%  | P%   | S%       |
|-------|--------|------|------|------|----------|
| 70-75 | 70 Min | 1.5- | 1.5- | 0.40 | 0.05 Max |

|       |        |                    |                    |      |          |
|-------|--------|--------------------|--------------------|------|----------|
| 75-80 | 75 Min | 2.0<br>1.5-<br>2.0 | 2.0<br>1.5-<br>2.0 | 0.35 | 0.05 Max |
|-------|--------|--------------------|--------------------|------|----------|

**Low Carbon Ferro Titanium**

| Grade | Mn%    | C%         | Si%         | Al  | P%   | S%       |
|-------|--------|------------|-------------|-----|------|----------|
| 30-35 | 30 Min | 0.1<br>Max | 1.5-<br>3.0 | 6-8 | 0.10 | 0.05 Max |
| 35-40 | 35 Min | 0.1<br>Max | 1.5-<br>3.0 | 6-8 | 0.10 | 0.05 Max |
| 65-70 | 65 Min | 0.1<br>Max | 1.5-<br>3.0 | 4-6 | 0.10 | 0.05 Max |

**NOTE:-** All the above grades of Ferro Manganese are available in lumps, size as required and also in the powder form for welding electrode industries.

**Magnesium Calcium Compound Cored Wire** in different materials, for example: Mg 39-41% Si 43-45% Fe 13-15% P 0.030%max S 0.030%max or as required.

**Calcium Ingot and lumps:**30-100mm,30-200mm.

**Calcium granulars:**0-2mm,0-3mm

**Calcium turning:**30-80mm(L),6-8mm(W),0.7-3.6mm(T)

**Calcium silicon** Ca(Min) 30 %;Si 55-65% ; Al(Max)1.8% ; S(Max) 0.04 , P(Max)0.04 , C(Max)1 Size 1-3mm,2-7mm, 0-2mm ,20-80mm, 10-100mm 90%Min or as requested.

Packing :1Mt big bag or 250kg/steel drum.

**Calcium Iron Powder** Ca30Fe70 or as your requirement size :0-2mm;0-3mm or as requested. packing:250kg/steel drum

**Calcium aluminium alloy**

Application: Middle alloy, refining and deoxidizing agent. Ca 60-85%,Al 40-15%. Lump size:30-100mm,granules:3-30mm.Packing: Polybags filled argon gas in and then sealed in steel drum.30KG/drum or 150KG/drum. Ca70-75%,Al:30-25% or Ca:80-85%,Al:20-15 Size: 30-100mm(Irregular lumps), 3-30mm(coarse granules), <3mm(fine granules) or as requirements.

**Calcium metal** Ca:98.5% and Ca99%Calcium Ingot, Calcium lumps:30-100mm,30-200mm.Calcium granulars:0-2mm,0-3mmCalcium turning:30-80mm(L),6-8mm(W),0.7-3.6mm(T)Or produce just according to your special and detailed specifications

**Calcium magnesium alloy**

Application: Middle alloy, refining and deoxidizing agent. Specification: Ca 24-32%,Mg balance. Lump size:30-100mm,or ingot Packing: Poly-bags filled argon gas in and then Packed.

**Tellurium; Antimony; Selenium; Cadmium ,Ca-Mg alloy,CaH2, Fe-Si, Fe-P, Fe-Boron, Fe-Mo and all Foundry Materials.**

**Pure Magnesium** 100g, 200g, 300g for Fischer Converter Mg 99.8% in bigbags