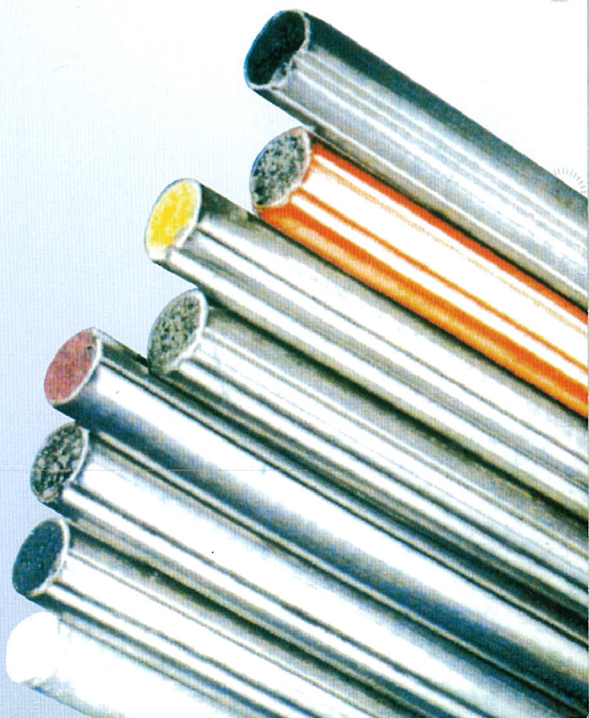


合金包芯线

—YB/T053-2000

Cored Wire

The various cored wire are made of high quality rolling steel band and compound iron alloy powder. The products are wrapped up tightly, reliable and tough, and the powder cores are same solid. The products are popularly used in wire feeding technology of modern steel-making. The cored wire can make good steel-making because they can greatly reduce the consumption of ferroalloy. The cored wire coils' pay-off can be divided into inside pay-off and outside pay-off. Inside pay-off coils can be directly used with wire-feeding machines and tubes, which is simple. Outside pay-off coils need to be put on a turntable to use, which is complicated. The coils can be divided into big coils and small coils. The big ones' outside diameters are 1200mm, inside diameters are 550mm, 1100mm wide. The small ones' outside diameters are 1200mm, inside diameters are 550mm, 600mm wide.



Factory and Product Introduction(Cored Wire)

Located in Bei Chen Economic and Technical District in Tianjin, China, the cored wire factory has adapted the most advanced technology of the world. Adopted up in good quality sheet of steel and then put ferroalloy powder to make rolls of wire, the product has the advantages of tight and secure wrapping, good flexibility, homogeneity and in powder density. The quality is steady and has proven to be up to Germany and French technical standards for wrapped-in wires.



With good quality, competitive prices and satisfied after-sales services, we sincerely hope to cooperate with customers both in China and abroad.

Advantages of wrapped in wires

Wire feeding is an advanced steel making technology recently developed in foreign countries.

With the development of steel making in China the integrated technology of electrical in the country, and is recommended by the nation's metallurgical industrial bureau as a key project for wide propagation.

Compared with powder injection and direct addition, wiring feeding has the following advantages:

1. Wire feeding makes it possible to fine-adjust the composition of molten steel, for instance the elements of B and Ti. Absorption of alloy powder increases by wide margins, 50% in the case of Ca and close to 30% in the case of Ti.
2. Treating molten steel with wire feeding, a stable and even response from the molten steel can be expected. Second time oxidation is avoided, and as impurities float up with better speed, a better cleansing of molten steel.
3. Wire feeding cuts the possibility of bringing gases into the molten steel.
4. Wire feeding has a high adaptability and wide range of application and needs little investment.
5. Wire feeding needs simple equipment and easy to operate and is environmental friendly.

Technical specifications

Ca/,Si wrapped-in wire of 9mm and 13mm and 16mm taken as example:

Diameter		Φ 13 mm	Φ 16 mm
1	Outward look	Smooth, shiny, free of cracks and high flexibility,	
2	Component Ratio	Steel: Powder=1:1.3	Steel: Powder=1:1.8
3	Fill Rate	57%	64%
4	Powder Density	220g/m	320g/m
5	Homogeneity	Weight deviation per hundred meter ≤ 2.5%, Less than 2 Joints per Kilometer	
6	Applicability	Small and medium electrical furnaces	Big volume electrical furnaces, needs less feeding time compared with 13mm wire

Product range: Si/Ca, Ti/Fe, S/Fe, B/Fe, Rare earth, Carbon also tailor made wires as per customer requirements

Annual capacity: First stage: 6000 tons

Technical Certification(YB/T053-2000)

Data provided along with products are: gross weight, net weight, and powder weight per meter length. powder specifications, powder description, fill rate, steel-powder ratio, manufacture date, color marking.

CORED WIRE

INJECCAST

enhancing your steel.....

CORED WIRE injection application has proven to be an integral feature in the secondary metallurgical treatment process of modern steelmaking.

The advent of high-speed continuous casting and increased quality requirements calls for more stringent chemistry demands, shorter process time and exact process repeatability.



Injection of cored wire in Ladle Metallurgy with powdered elements tightly encased, eliminates problems associated with alloying elements of low density and melting point, high toxicity and high affinity for oxygen and nitrogen.

Nozzle clogging by deposits of solid inclusions is eliminated with the introduction of calcium alloys or pure calcium which modifies the nature of these inclusions.

Trimming with cored wire of various alloying elements ensures trimmings of composition within close range, reduced consumption of alloying material and effectively providing repeatable and predictable results.

Cored wire injection application is also widely integrated in the foundry practice of desulphurization, inoculation and nodularization process, with significant quality improvement.

INJECCAST cored wire presents its customers an effective, low cost solution to achieve increased consistent productivity of high quality steel at competitive prices.

Available diameters: 9mm, 13mm and 16mm

CASI, CALCIUM, CAFE, AL-CA-FE,

FE TI, FE B, FE S, CARBON,

RE-Mg-SI, RE-SI-FE