

SOLUTIONS FOR METALLURGY

CORED WIRE

For improving melt properties, alloying and deoxidation



CORED WIRE

Improve your melt properties with Cored Wires supplied by ALMAMET.

Cored Wires are the first choice when fine materials need to be injected deep into a molten metal. Therefore, powdered or granulated substances are filled into steel tubes which are wound up into coils.

The use of Cored Wires is a standard application to add alloying elements, deoxidizers or modifiers into the melt.

ALMAMET INTERNATIONAL GROUP with its subsidiary METSER in Izmir, Türkiye, offers a wide range of Cored Wires.

METSER was founded in 2007 and has become a leading manufacturer of Cord Wires in Türkiye and beyond. METSER has consistently adjusted and optimized its products to meet specific customer requirements up to the development of an own feeding system.

METSER operates in accordance with the highest industry standards according to ISO 9001, 14001 and ISO 45001 and ensuring its commitment to quality, environmental responsibility, occupational health and safety.

The use of the Cored Wire technology offers a wide range of advantages both in the steelmaking process as well as for the foundry industries.



Precise dosing of additives

The technology allows an accurate dosing of alloying elements and other additives. This precision results in a better control of the chemical composition of the final product.

Reduced material waste

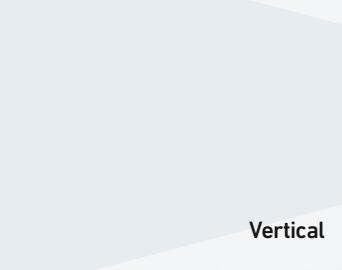
Compared to adding powder or lumpy additives directly into the ladle, the closed design of Cored Wires prevents additive spillage and reduces dust emissions.

Increased cost-efficiency

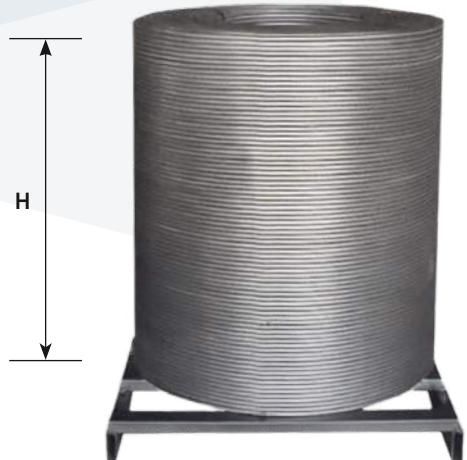
Thanks to the loss-free and precise feeding of materials, Cored Wire technology helps to reduce raw material and production costs.

Increased process stability

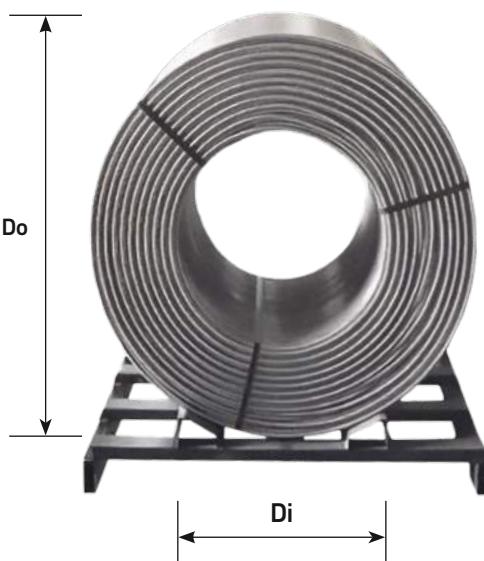
The addition of alloying elements controlled by the feeding system helps to achieve consistent results across different batches.



Vertical



Horizontal



Coil outer diameter Do 1,100 mm

Coil inner diameter Di 600 mm

Coil height H 1,100 mm

Customized coil dimensions
are available on request.



Utilizing advanced production technologies, **9.5 mm** and **13 mm** diameter Cored Wires can be manufactured and supplied. The Cored Wires can be produced with different wall thicknesses to meet specific requirements. A broad variety of elements can be filled into the Cored Wires, e.g.:

| Substance | Basic component | Purpose |
|----------------------------|-----------------|--|
| Aluminum | Al | Deoxidization and grain refinement |
| Calcium (Solid) | Ca | |
| Calcium Iron | CaFe | Calcium treatment and Desulfurization |
| Calcium Silicon | CaSi | |
| Magnesium | Mg | |
| Ferro Silicon Magnesium | FeSiMg | Nodulizers |
| Ferro Boron | FeB | |
| Ferro Molybdenum | FeMo | |
| Ferro Niobium | FeNb | |
| Ferro Titanium | FeTi | |
| Ferro Vanadium | FeV | Adjust the chemical composition of the melt to ensure the performance of the metal |
| Carbon | C | |
| Sulphur | S | |

Further alloying elements as filling material and different diameter options are available on request.

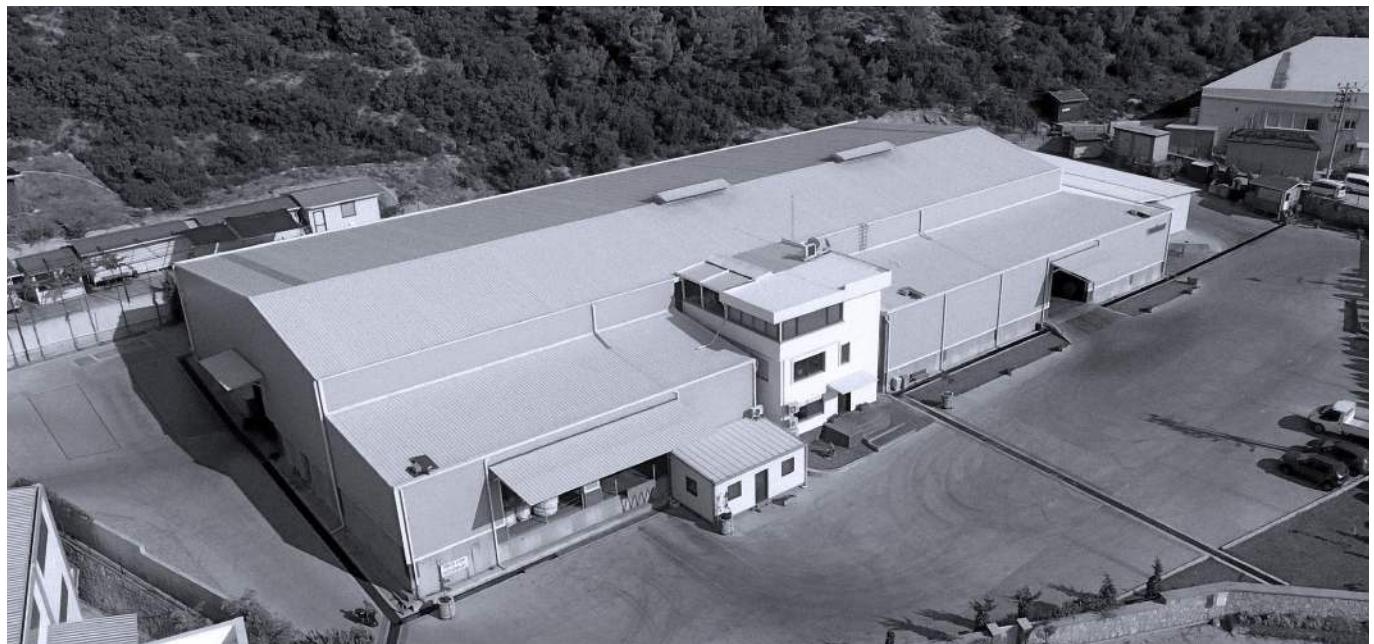


Enhance your process with Cored Wire feeding systems.

A Cored Wire feeding system is needed to inject the Cored Wire into the melt.

It is particularly important to maintain a controlled high speed during injection. This is not only to ensure an efficient process time, but moreover to determine the exact submersion depth of the wires for maximum effectiveness.

The feeding systems are developed and manufactured in-house, ensuring high quality and reliable performance through METSER's many years of experience and expertise. METSER's systems stand out due to their exceptional robustness and durability.



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