

# INFORM M CORED WIRE



## MAGNESIUM TREATMENT WITH INFORM M CORED WIRE

Magnesium treatment is a necessary step in the production process of iron with nodular graphite. The treatments can greatly vary from foundry to foundry, depending on the iron grade produced, customer criteria, and your foundry process. Magnesium treatment can significantly alter the mechanical properties of your castings. Therefore, a careful consideration and an expert consulting is recommended to yield the desired strength and ductility at reasonable operating cost.

The cored wire process is just one method for magnesium treatment. Our INFORM M cored wire process is fully customizable to the specific requirements of the castings. It offers great flexibility in terms of the chemical composition, the wire diameter, and can be integrated into fully automated product lines.

## TECHNOLOGICAL ADVANTAGES

- Flexible compositions: pure magnesium, mixed, alloy
- Different diameters: 9mm, 13mm & 16mm
- Exact dosage with low addition rate
- Base iron: cupola melting & electric melting
- Applications: DI, CGI & desulfurization



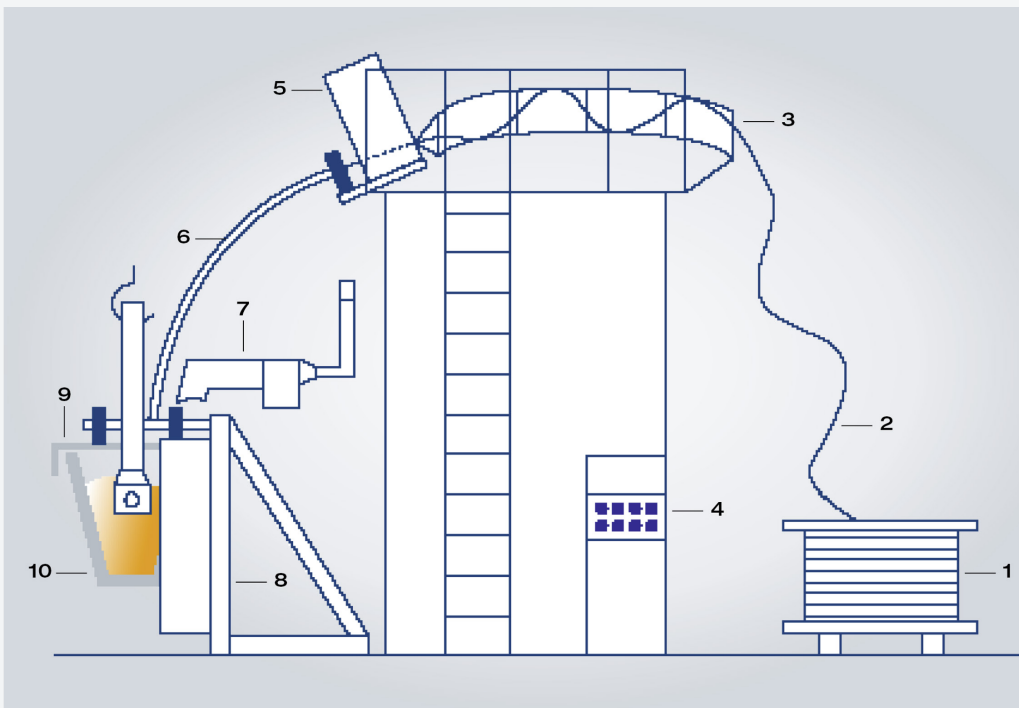


Figure 1:  
Process illustration of the simple, open treatment station

- 1 Coil
- 2 Cored wire
- 3 Guide rings
- 4 Control panel
- 5 Wire feeding machine
- 6 Guide tube
- 7 Extraction
- 8 Treatment stand
- 9 Cover
- 10 Ladle

### Effective treatment with INFORM M cored wire

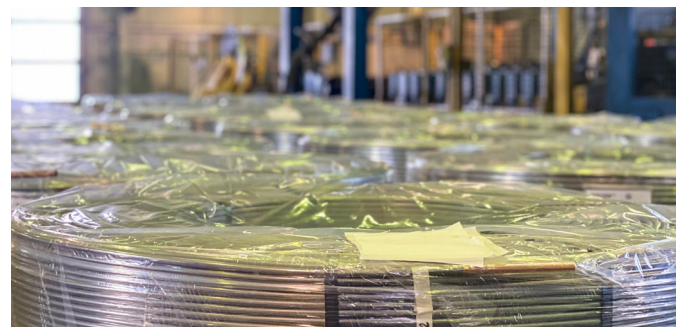
INFORM M cored wire is a very effective and reliable method for magnesium treatment. It is available with different diameters. The wire process is very easy to handle and ideal for automated processes.

### Automation of the cored wire process

The simple, easy wire process is suitable for process automation (Figure 1). The cored wire is pulled from the coil through the guides by the wire feeder. The feeder then injects the wire into the guide tube which directs the wire into the ladle. An extraction unit installed directly above the ladle ensures complete removal of effluents, thus improving environmental and working conditions.

INFORM M cored wire is produced with the utmost care and to high quality standards.

Magnesium treatment with cored wire offers great flexibility with regard to changing initial conditions such as sulfur content, treatment temperature and iron quantity. This means that constant magnesium values can be achieved despite varying initial sulfur values and treatment temperatures. The automated process not only reduces the costs for handling and treatment but also decreases emission pollution thanks to the targeted extraction.



## YOUR SUSTAINABILITY PLUS

### Profitability

- Automated and stable process
  - Improved quality assurance
  - Reliable documentation
  - High yield
  - Optimized and customized solutions
- Cost savings
  - Lower handling costs
  - Lower treatment costs
  - Reduced labor costs due to automation

### Environment & Social

- Significant reduction of emissions thanks to direct extraction
- Produced in Germany