

Ferro Silicon Magnesium & Inoculants: Advancements in Metallurgical Alloys

This presentation will delve into the world of ferro silicon magnesium (FeSiMg) alloys, cored wires, and inoculants, exploring their crucial role in advancing metallurgical processes and enhancing metal properties.



Bansal Brothers



Introduction to Ferroalloys & Their Impact

1

Ferroalloys: crucial components
in metal production

2

FeSiMg: key to ductile iron
strength

3

Inoculants: refining
metal properties

What is Ferro Silicon Magnesium (FeSiMg)?

- 1** FeSiMg: alloy of iron, silicon, and magnesium
- 2** Ductile iron production: key role
- 3** Graphite nodulization: enhances strength



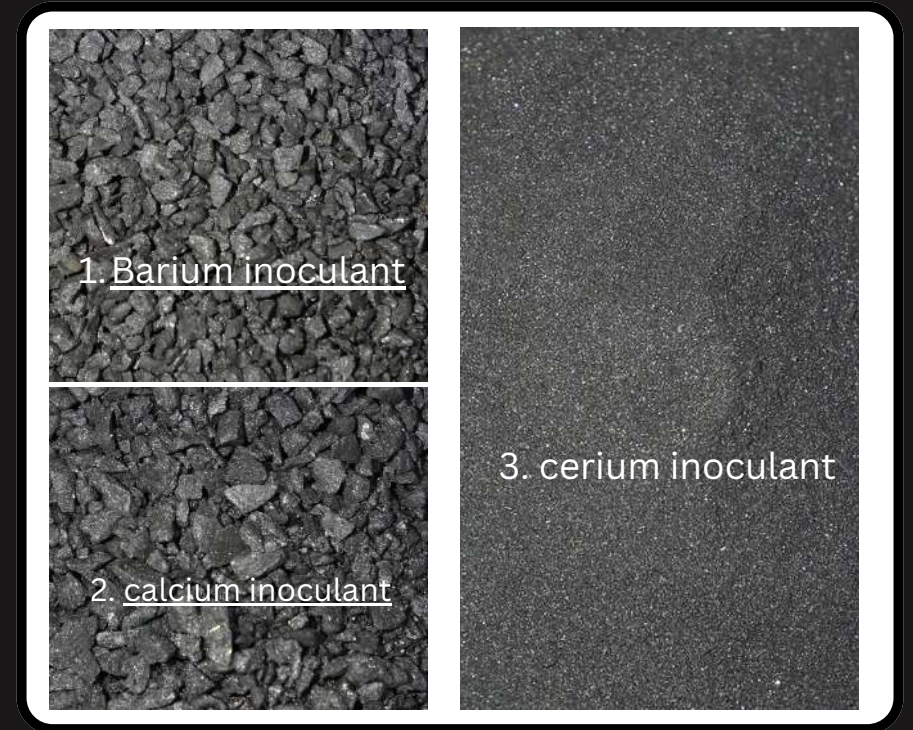
Inoculants: Transforming Metal Properties

Most of the use of inoculants

Microstructure
refinement

Graphite formation
enhancement

Shrinkage defect reduction



FeSiMg Alloys: Variants & Applications

1

FeSiMg-6-8

Magnesium: 6-8% Standard
ductile iron applications

2

FeSiMg-8-10

Magnesium: 8-10% High-
strength ductile iron



FeSiMg Cored Wires: Precision & Efficiency



cored Wire
injection
process



Precision
and
efficiency



Magnesium
treatment
enhancement



Advantages & Industrial Applications

1

Ductility and tensile strength

2

Machinability and durability

3

Production defect reduction

Conclusion: The Future of Metallurgical Advancements

- FeSiMg: vital role in modern metallurgy
- Inoculants: enhance metal properties
- Cored wires: production efficiency
- Advancements in alloy technology: improved material performance





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