



ATASAN Ferroalloys

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Magnesium Ferrosilicon (FeSiMg)

Magnesium ferrosilicon is an alloy composed primarily of silicon, magnesium, and iron, with controlled amounts of rare earth elements and minor impurities. It is widely used in ductile (nodular) cast iron production.

In casting applications, FeSiMg acts as a nodularizing agent. Magnesium modifies the graphite structure from flake to spheroidal form, significantly improving strength, ductility, and impact resistance. Rare earth elements help stabilize the nodularization process and improve consistency.



1. Typical Chemical Composition (%)

Products	Si	Mg	RE	Ca	Al
FeSiMg 5	44 - 48	4.5 - 6.0	0.5 - 1.5	0.5 - 1.5	≤ 0.10
FeSiMg 7	44 - 48	6.0 - 8.0	0.5 - 1.5	0.5 - 1.5	≤ 1.0

2. Typical Size: 5 - 25 mm

3. Packing: 1 MT Big Bag / Bulk

- Other sizes and specifications are available upon request.