

Ferrosilicon Ferroalloy

Ferrosilicon is a ferroalloy with a silicon content between 15% and 90%. It is used as a source of silicon to reduce metals from their oxides and to deoxidize steel and other ferrous alloys.



Product Overview

What is Ferrosilicon?

Ferrosilicon is a crucial ferroalloy composed of iron and silicon, with silicon content typically ranging from 15% to 90% by weight. Produced via submerged arc furnace smelting using silica, coke, and iron-bearing materials, it serves as a vital additive in metallurgy. It is primarily utilized as a source of silicon to reduce metals from their oxides and to effectively deoxidize steel and other ferrous alloys.

Technical Specifications

Silicon Content	15% - 90%
Production Method	Submerged arc furnace smelting

Applications

Primary Applications

- Deoxidizing steel and ferrous alloys
- Reducing metals from oxides
- Manufacturing silicon
- Producing corrosion-resistant alloys
- Creating high-temperature resistant alloys
- Producing silicon steel for electromotors and transformer cores

Key Benefits

Improves castability, Enhances mechanical properties, Ductile iron support