

Ferrosilicon Ferroalloy

Ferrosilicon is an alloy of iron and silicon with a silicon content from 15% to 90%. It is used as a deoxidizer in steelmaking, a nodulizer in ductile iron production, and an alloying agent.



Product Overview

Ferrosilicon Ferroalloy

Ferrosilicon is a crucial ferroalloy composed of iron and silicon, typically containing between 15% and 90% silicon by weight. Produced through submerged arc furnace smelting of quartz, coke, and iron materials, it serves as a vital component in metallurgical processes. This versatile material acts as a deoxidizer in steelmaking and a nodulizer in ductile iron production, while also being essential for manufacturing corrosion-resistant alloys and silicon steel.

Technical Composition

Silicon Content

15 % Minimum	90 % Maximum
------------------------	------------------------

Applications

Primary Industrial Applications

- Steelmaking (Deoxidizer)
- Ductile Iron Production (Nodulizer)
- Alloying Agent
- Silicon Production
- Corrosion-resistant Alloy Manufacturing
- High-temperature Resistant Alloy Manufacturing
- Silicon Steel (Electromotors and Transformer Cores)

Material Properties

Physical Appearance

Dark, Metallic, Rough Surface, Irregular Texture

Manufacturing Process

Production Method

Submerged arc furnace smelting of quartz, coke, and iron materials