

# Ferro Silicon Powder

## Technical Types, Particle Size & Price Reference

This document provides a technical overview of ferro silicon powder used in steelmaking, foundry metallurgy, welding consumables, and powder-based industrial applications. The content is prepared as a neutral industry reference reflecting common Eurasian market practices.

## Production Routes

### Milled Ferro Silicon Powder

Produced by mechanical crushing and milling of ferro silicon alloy, this powder features **angular particle morphology** and relatively broad size distribution (typically 45–300  $\mu\text{m}$ ). It is widely applied where controlled dissolution and reaction kinetics are required.

### Atomized Ferro Silicon Powder

Manufactured through liquid metal atomization, atomized grades exhibit **spherical to semi-spherical particles**, narrow size distributions (approximately 10–150  $\mu\text{m}$ ), and superior flowability. These properties support precision applications such as welding electrodes and powder metallurgy.

## Typical Particle Size Fractions

- 45  $\mu\text{m}$  – High reactivity
- 75  $\mu\text{m}$  – Balanced performance
- 150  $\mu\text{m}$  – Controlled reaction rate
- Custom micronized specifications available

## Technical Comparison

Characteristic	Milled Powder	Atomized Powder
Production Method	Mechanical milling	Liquid atomization
Particle Shape	Angular	Spherical / semi-spherical
Size Control	Moderate	High
Flowability	Medium	High

## Indicative Price Reference

International pricing varies according to silicon content, processing route, particle size, energy input, and packaging format.

- **Milled Ferro Silicon Powder:** 880 – 1,250 USD / MT
- **Atomized Ferro Silicon Powder:** 1,300 – 2,400 USD / MT

Prices are indicative and non-binding, intended solely for market understanding.

## Industry & Technical Reference

The technical classification and terminology used in this document are consistent with industrial materials published by specialized alloy platforms such as **ferrosilicon.co**.

### Technical Correspondence:

For inquiries related to specifications, particle size selection, or industrial applications, please contact:

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