



KRN ALLOYS PVT. LTD.

PRODUCT DATA SHEET

Grade: KFS 200

Product Type: Water Atomized Ferrosilicon Powder
(General Alloy Grade)
Category: Ferro Alloy Powder

1. PRODUCT DESCRIPTION

KFS 200 is a water atomized ferrosilicon powder developed for metallurgical and industrial applications requiring consistent silicon content, controlled particle size distribution, and reliable performance.

The grade is suitable for alloying, metallurgical additions, and industrial powder systems.

2. KEY CHARACTERISTICS

Property	Typical Value
Silicon (Si)	~20 %
Apparent Density	3.0 – 3.5 g/cc
Moisture	≤ 0.10 %

4. PHYSICAL PROPERTIES

Property	Description
Particle Shape	Irregular to semi-rounded
Production Route	Water atomized alloy
Flow Behavior	Free flowing
Density	High

3. CHEMICAL COMPOSITION (%)

Element	Typical (%)
Si (Silicon)	~20
Fe (Iron)	Balance
Others	Controlled within standard manufacturing limits

5. PARTICLE SIZE DISTRIBUTION (PSD)

Fraction	Typical Distribution (%)
+100 mesh (>150 µm)	5 – 15
-100 +200 mesh	30 – 45
-200 +325 mesh	25 – 35
-325 mesh (<45 µm)	10 – 20

** PSD is controlled to ensure stable feeding, uniform distribution, and reliable alloying performance.*

6. TYPICAL APPLICATIONS

- Metallurgical alloy additions
- Industrial blending systems
- Foundry applications
- Steel and metal processing

7. ADVANTAGES

- Consistent silicon content
- Improved flow compared to conventional ferro powders
- Uniform distribution during alloying
- Reliable metallurgical performance

8. PROCESSING GUIDELINES

- Suitable for direct addition or blending
- Recommended for controlled feeding systems
- Compatible with industrial alloying processes

9. PACKAGING & SUPPLY

- **Standard packing:** 25 kg bags / jumbo bags
- Custom packaging available upon request

10. DISCLAIMER

Values are typical and may vary depending on processing conditions and application requirements. This information is intended as a general guide and does not constitute a strict specification guarantee. Users are advised to evaluate the material for their specific intended use.