



1. PRODUCT DESCRIPTION

KSP 200 is a sponge reduced iron powder developed for industrial and metallurgical applications requiring controlled particle size, moderate reactivity, and stable handling characteristics.

The grade is suitable for applications where coarser particle size and consistent performance are required in blending and industrial powder systems.

2. KEY CHARACTERISTICS

Property	Typical Value
Apparent Density	2.3 – 2.7 g/cc
Flow Rate (Hall)	28 – 38 sec/50g
Moisture	≤ 0.15 %
Oxygen (O ₂)	≤ 0.35 %

4. PHYSICAL PROPERTIES

Property	Description
Particle Structure	Porous / sponge-like
Production Route	Reduction process
Surface Area	Moderate
Reactivity	Moderate
Flow Behavior	Improved vs finer sponge grades

3. CHEMICAL COMPOSITION (%)

Element	Typical (%)
Fe (Iron)	Balance
C (Carbon)	≤ 0.05
O (Oxygen)	≤ 0.35
Others	Controlled within standard manufacturing limits

5. PARTICLE SIZE DISTRIBUTION (PSD)

Fraction	Typical Distribution (%)
+100 mesh (>150 μm)	10 – 25
-100 +200 mesh	35 – 50
-200 +325 mesh	15 – 30
-325 mesh (<45 μm)	5 – 10

** Particle size distribution is controlled to support stable handling, reduced fines, and consistent performance in industrial applications.*

6. TYPICAL APPLICATIONS

- Industrial powder blending
- Chemical and metallurgical applications
- Reduction processes
- General industrial powder systems

7. ADVANTAGES

- Reduced fines for improved handling
- Stable flow and feeding characteristics
- Controlled reactivity
- Suitable for coarse powder applications
- Reliable performance in industrial systems

8. PROCESSING GUIDELINES

- Suitable for blending and controlled feeding systems
- Recommended storage under dry conditions
- Compatible with industrial powder handling systems

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.