KRN ALLOYS PVT. LTD.

PRODUCT DATA SHEET

Grade: KSnP

Product Type: Air Atomized Tin Powder
Category: Low Melting Point Metal Powder

1. PRODUCT DESCRIPTION

KSnP is an air atomized tin powder developed for applications requiring low melting temperature, good wettability, and consistent particle distribution.

The grade is suitable for soldering, coating, and metallurgical applications where controlled melting behavior and uniform distribution are required.

2. KEY CHARACTERISTICS

Property	Typical Value
Purity (Sn)	≥ 99.5 %
Apparent Density	3.0 – 3.8 g/cc
Flow Rate (Hall)	20 – 30 sec/50g
Melting Point	~232°C

3. CHEMICAL COMPOSITION (%)

Element	Typical (%)
Sn (Tin)	**≥ 99.5**
Pb (Lead)	≤ 0.05
Others	Controlled within standard manufacturing limits

4. PHYSICAL PROPERTIES

Property	Description
Particle Shape	Irregular to semi-rounded
Production Route	Air atomized
Flow Behavior	Good
Wettability	Excellent

5. PARTICLE SIZE DISTRIBUTION (PSD)

Fraction	Typical Distribution (%)
+100 mesh	0 – 5
-100 +200 mesh	20 – 40
-200 +325 mesh	30 – 50
-325 mesh	10 – 25

** PSD is controlled to ensure uniform melting, good flow, and consistent distribution in applications.*

6. TYPICAL APPLICATIONS

- Soldering materials
- Metallurgical coatings
- Chemical applications
- Powder blending systems

7. ADVANTAGES

- Low melting temperature
- Excellent wettability
- Good flow characteristics
- Consistent melting behavior

8. PROCESSING GUIDELINES

- Suitable for controlled heating and melting systems
- Recommended for blending and coating applications
- Store in dry conditions

9. PACKAGING & SUPPLY

- **Standard packing:** 25 kg bags
- Custom packaging available

10. DISCLAIMER