

TECHNICAL DATASHEET

Antimony Powder

1. Product Identification

- **Product Name:** Antimony Powder
- **Chemical Name:** Antimony
- **Chemical Formula:** Sb
- **CAS Number:** 7440-36-0
- **Molecular Weight:** 121.76 g/mol
- **Appearance:** Grey to silvery-grey fine powder

2. Chemical Composition

| Element | Purity (%) |
|---------------|------------|
| Antimony (Sb) | ≥ 99.5% |
| Arsenic (As) | ≤ 0.05% |
| Lead (Pb) | ≤ 0.05% |
| Iron (Fe) | ≤ 0.02% |
| Sulfur (S) | ≤ 0.01% |

(Can be customized: 99.0%, 99.9%, etc.)

3. Physical Properties

| Property | Value |
|---------------|---|
| Melting Point | 630.6°C |
| Boiling Point | 1587°C |
| Density | 6.68 g/cm ³ (Solid) |
| Particle Size | As per requirement (e.g., 100 mesh to 325 mesh) |
| Solubility | Insoluble in water |

4. Particle Size Distribution (Example)

| Mesh Size | % Passing |
|-----------|-----------|
| 100 Mesh | 100% |
| 200 Mesh | ≥ 95% |
| 325 Mesh | ≥ 90% |

(Modify based on your actual product grade)

5. Applications

- Flame retardant synergist (with Sb₂O₃)
- Pyrotechnics and explosives

- Semiconductor materials
- Friction materials (brake linings)

6. Packing

- 5 kg,10Kg,25Kg, HDPE bags in Plastic bucket
- Jumbo bags (500 kg / 1000 kg)
- On requirement of customer

7. Storage & Handling

- Store in a **cool, dry, well-ventilated area**
- Avoid moisture and oxidizing agents
- Use PPE: gloves, mask, safety goggles
- Prevent dust generation and inhalation

8. Safety Information

- Hazard Class: Irritant / Toxic (fine dust)
- Avoid inhalation and ingestion
- Refer to **MSDS/SDS** for detailed safety guidelines

9. Shelf Life

- 12 months under proper storage conditions

10. Notes

- Specifications can be tailored as per customer requirement
- Test methods: ICP / AAS for purity analysis

Contact us for technical support: - Mr. Pradeep Kumar (Technical Head), Contact No: +91 8979777000.

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