SAMARTH METACHEM PVT. LTD.

GSTIN: 24ABMCS1070L1Z5

TECHNICAL DATA SHEET

AMMONIUM PARATUNGSTATE (APT)

Manufacturer	Samarth Metachem Pvt. Ltd.
Country of Origin	India
Market Suitability	Domestic & International Export Markets

Ammonium Paratungstate (APT) manufactured by Samarth Metachem Pvt. Ltd. is a high-purity, white crystalline salt. It serves as the primary precursor and baseline component for the fabrication of premium tungsten metal powders, tungsten carbide matrices, and specialty industrial catalytic agents.

2. Key Intermediate & Physical Metrics

- **Chemical Name:** Ammonium Paratungstate (APT)
- **Chemical Formula:** (NH4)10(H2W12O42) · 4H2O
- **CAS Number:** 11120-25-5
- **HS Code:** 2841.80.10
- **Appearance:** Fine, white crystalline powder
- **Apparent Density (Scott):** 2.2 – 2.8 g/cm³ (Tailored strictly to batch specification)
- **Particle Size (D50):** 35 – 45 µm

3. Chemical Composition & High-Purity Assays

- Tungsten Trioxide (WO3) Concentration: ≥ 88.5%

Element	Max Limit (ppm)	Element	Max Limit (ppm)
Al (Aluminium)	≤ 10	Mo (Molybdenum)	≤ 10
As (Arsenic)	≤ 10	Na (Sodium)	≤ 10
Bi (Bismuth)	≤ 1	Ni (Nickel)	≤ 5
Ca (Calcium)	≤ 10	P (Phosphorus)	≤ 7
Co (Cobalt)	≤ 5	Pb (Lead)	≤ 1
Cr (Chromium)	≤ 5	S (Sulphur)	≤ 7
Cu (Copper)	≤ 3	Sb (Antimony)	≤ 3
Fe (Iron)	≤ 10	Si (Silicon)	≤ 10
K (Potassium)	≤ 10	Sn (Tin)	≤ 3
Mg (Magnesium)	≤ 5	V (Vanadium)	≤ 5

- Loss on Ignition (LOI): ≤ 11.5%

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4. Packaging, Logistics & Handling Guidelines

• **Packaging Matrix:** Domestic distribution utilizes 50 kg or 250 kg high-density polyethylene (HDPE) industrial drums configured with double-layer anti-static protective bags. Export consignments ship in heavy-duty, UN-certified steel drums or 1,000 kg palletized ISPM-15 compliant flexible intermediate bulk containers (FIBC jumbo bags).

• **Storage Directives**: Store inside ambient, moisture-monitored, and well-ventilated dry warehouses. Ensure original packaging seals remain intact to negate structural ambient humidity intake. Avoid joint staging alongside active chemical acid complexes.

• **Stated Shelf Life:** 24 months from the operational manufacturing date when safely held in undisturbed original container footprints.

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