TUNGSTEN TRIOXIDE (WO3)

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

Tungsten Trioxide (Tungstic Oxide) engineered by Samarth Metachem Pvt. Ltd. is an ultra-pure, light yellow-green crystalline mineral compound. It serves as the primary technical component for advanced downstream processing into tungsten metallic powders, heavy high-density alloys, and specialty catalytic materials.

2. Key Intermediate & Physical Metrics

- **Chemical Name:** Tungsten(VI) oxide
- **Chemical Formula:** WO3
- **CAS Number:** 1314-35-8
- **HS Code:** 2825.90.90
- **Appearance:** Light yellow or light green-tinted fine powder
- **Apparent Density (Scott):** 2.4 – 3.0 g/cm³
- **Particle Size (D50):** 2.5 – 5.0 µm (Custom granulated ranges optimized via laser diffraction)

3. Chemical Composition & High-Purity Assays

Tungsten Trioxide (WO3) Purity Level: ≥ 99.95%

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)	≤ 5
Co (Cobalt)	≤ 5	Pb (Lead)	≤ 1
Cr (Chromium)	≤ 5	S (Sulphur)	≤ 5
Cu (Copper)	≤ 3	Sb (Antimony)	≤ 3
Fe (Iron)	≤ 10	Si (Silicon)	≤ 10
K (Potassium)	≤ 10	Sn (Tin)	≤ 2

- Loss on Ignition (LOI): ≤ 0.2%

Email
rahul@samarthmetachem.com

Phone
+91 99045 16938 | +91 95123 33045

Address
501, Shilp Zaveri, Nr. Shyamal Cross Road,
Nehru Nagar, Ahmedabad · 380015, Gujarat
Web: www.samarthmetachem.com

4. Packaging, Logistics & Handling Guidelines

• Packaging Matrix: Supplied domestically within 50 kg / 250 kg high-density polyethylene (HDPE) drums featuring moisture-proof protective poly-liners. Overseas ocean/air freight is dispatched in robust UN-approved iron/steel drums or custom 1,000 kg containerized bulk handling setups.

• Storage Directives: Keep inside hermetically sealed original containers positioned in cool, moisture-controlled warehouses. High ambient humidity exposure can trigger mechanical lump agglomerations without degrading structural purity indices.

• Stated Shelf Life: Indefinite, conditionally tied to absolute protection against moisture entry and surrounding environmental pollutant exposures.

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