MFG. & EXPO OF: TUNGSTEN / MOLYBDENUM SALTS  
REACTIVE / PIGMENT DYES

OUR PRODUCT
ABOUT US

Incepted in the year 1978, Sajan Overseas is engaged in manufacturing and supplying a comprehensive array of metallic salts. These include Ammonium Molybdate, Sodium Molybdate, Sodium Tungstate, Tungsten Trioxide, Molybdenum di sulphide and more. Our valuable industry experience spanning over one and half decades has helped us understand client requirements and accordingly formulate chemicals. Presently, the offered products are meeting the demands of industries like Dyes & Colors, Bulk Drugs, Paints & Pigments and more.

We also have a sophisticated infrastructure facility which is well equipped with latest manufacturing unit, advance research and development wing and storage unit. Our diligent and proficient workforce is capable of understanding client requirements and delivering the same in best possible finish standards.

Under the able guidance of our mentor, Mr. Vinesh Patel (M.SC) (40 years), who has an industrial experience of 19 years, we have reached pinnacle of success. His strong business acumen and process knowledge has helped us to successfully find client support in the domestic markets.

**Product Range**

- Ammonium Para Tungstate
- Ammonium Meta Tungstate
- Sodium Tungstate
- Tungsten Di Sulphide
- Sodium Metatungstate (Sodium Poyltungstate)
- Tungstic Acid
- Tungsten Trioxide
- Ammonium Molybdate
- Sodium Molybdate
- Molybdic Acid
- Molybdenum Trioxide
- Molybdenum Di Sulphide
- Nickel Sulphate
- Nickel Chloride
- Nickel Carbonate
- Inorganic Salt Cu & Co
- Phosphotungstic Acid.
Ammonium Paratungstate


\[(NH_4)_10\ W_12\ O_{41} \times 4H_2O\]

Mol. Wt. 3132

Sodium Tungstate


CAS: 10213-10-2

**SPECIFICATIONS**

\[Na_2WO_4.2H_2O\]

Mol. Wt. 329.86

- Assay: 98% Min
- Free alkali (as NaOH): 0.1% Max
- Chloride (Cl): 0.01% Max
- Sulphate (SO_4): 0.02% Max
- Total Nitrogen (N): 0.005% Max
- Iron (Fe): 0.002% Max
Tungsten Disulphide

**Uses**: It mainly has application in spraying, coating, carbon material, super rigidity material, and weld thread material, all sorts of grease, lubricating oil, friction materials and catalyses.

WS₂ can be applied for lubricants such as grease, oil and synthetic lubricants as an additive with powder form 1% to 15%.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mol Formula</td>
<td>WS₂</td>
</tr>
<tr>
<td>Colour</td>
<td>Silver Gray</td>
</tr>
<tr>
<td>Appearance</td>
<td>Crystalline Solid</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>1250°C, 1260°C (decomposes)</td>
</tr>
<tr>
<td>Density (Kg.m-3)</td>
<td>7500</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>248</td>
</tr>
<tr>
<td>Coefficient of Friction</td>
<td>0.03 Dynamic; 0.07 Static</td>
</tr>
<tr>
<td>Lubrication Temperature Range</td>
<td>Ambient: from -273°C to 650°C Vacuum (10-14 Torr): from -188°C to 1316°C</td>
</tr>
<tr>
<td>Chemical Durability</td>
<td>Inert Substance, Non-Toxic</td>
</tr>
<tr>
<td>Coatable Substrates</td>
<td>Iron, Steel, Aluminum, Copper, other Metals, Plastics and Manmade Solids</td>
</tr>
</tbody>
</table>
**Sodium Molybdate**

**Uses:** Reagent in analytical chemistry, Paint pigments, Production of molybdated toners & lakes, Metal finishing, Brightening agent for zinc plating, Corrosion inhibitor, Catalyst in die & pigment production, Additive for fertilizer and feeds, Macro nutrient.

**SPECIFICATIONS**

- **Na₂MoO₄·2H₂O**
- **MOL. W. 241.95**
- **DESCRIPTION**
- **TOTAL ASSAY** 99.0% MIN.
- **MOLYBDENUM** 39.0% MIN.
- **INSOLUBLE MATTER** 0.05% MAX.
- **CHLORIDE (Cl)** 0.05% MAX.
- **SULPHATE (SO₄)** 0.01% MAX.
- **HEAVY METAL** 0.05% MAX.
- **SILICON**

**Molybdenum Disulphide**

**Uses:** Lubricants in greases, oil dispersion, resin bonded films, dry powders, etc., specially at extreme pressures and vacuum, hydrogenation catalyst.

**SPECIFICATIONS**

- **MOS₂**
- **M.W. 160.06**
- **DESCRIPTION**
- **MINIMUM ASSAY (MOS₂)** 98%
- **MAXIMUM PARTICLE SIZE** 0.01 MM
**Ammonium Molybdate & Ammonium Para Molybdate**

**Ammonium Hepta Molybdate**

**Uses:** Analytical reagent, Pigment, Catalyst for dehydration and de-sulphurization in petroleum & coal technology, Production of molybdenum metal, Source of molybdate ions.

**CAS:** 12027-67-7

**SPECIFICATIONS**

$$\text{(NH}_4\text{)}_6 \text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$$

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>White Crystalline Powder</td>
</tr>
<tr>
<td><strong>Total Assay</strong></td>
<td>99.0% Min.</td>
</tr>
<tr>
<td>**MoO}_3</td>
<td>81.0% Min.</td>
</tr>
<tr>
<td><strong>Molybdenum</strong></td>
<td>54% Min.</td>
</tr>
<tr>
<td><strong>Insoluble Matter</strong></td>
<td>0.01% Max.</td>
</tr>
<tr>
<td><strong>Chloride (Cl)</strong></td>
<td>0.05% Max.</td>
</tr>
<tr>
<td>**Ar. Ph. Si. (SiO}_2)</td>
<td>0.05% Max.</td>
</tr>
<tr>
<td>**Nitrate (NO}_3)</td>
<td>0.02% Max.</td>
</tr>
<tr>
<td>**Sulphate (SO}_4)</td>
<td>0.02% Max.</td>
</tr>
<tr>
<td><strong>Iron (Fe)</strong></td>
<td>0.01% Max.</td>
</tr>
<tr>
<td><strong>Lead (Pb)</strong></td>
<td>0.01% Max.</td>
</tr>
</tbody>
</table>
**Tungsten Trioxide**

**Uses:** To form metal by reduction, Alloys, Preparation of tungstates for x-ray screens, Fireproofing fabrics, Yellow pigments in ceramics and others.

**CAS:** 1314-35-8

**PHYSICAL PROPERTIES**

- **MF:** $\text{WO}_3$
- **Color:** Yellow / Green
- **Ignition Residue as:** 2.2 gm/cc
- **Grain Size:** 9.5 micron

**CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Sr. Not</th>
<th>Maximum allowed</th>
<th>As actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>Fe</td>
<td>20</td>
<td>6</td>
</tr>
<tr>
<td>K</td>
<td>10</td>
<td>02</td>
</tr>
<tr>
<td>Na</td>
<td>15</td>
<td>06</td>
</tr>
<tr>
<td>Mo</td>
<td>30</td>
<td>03</td>
</tr>
<tr>
<td>Si</td>
<td>10</td>
<td>03</td>
</tr>
<tr>
<td>Co</td>
<td>10</td>
<td>03</td>
</tr>
<tr>
<td>Wo3</td>
<td>99.97%</td>
<td>99.98%</td>
</tr>
</tbody>
</table>

**Ammonium Metatungstate**

**Uses:** Catalysts Petrochemical industry as a reactions including oxidation hydroxylation, hydrogenation, and polymerization_reagent for chemical analysis such as for medical diagnosis-thin-film substrate for certain semi conductor device, use in tungsten metal.

**CAS:** 12025-48-7

**SPECIFICATIONS**

- **NAME:** AMT-72 AMMONIUM METATUNGSTATE HIGH PURITY TYPE
- **MOLECULAR FORMULA:** $(\text{NH}_4)_6[\text{H}_2\text{W}_12\text{O}_40]\cdot n\text{H}_2\text{O}$ $(n6)$
- **MOLECULAR WEIGHT:** 3,064
- **WO3 CONTENT:** 90±1

**PACKING:** NET25kg
**CARTON BOX:**

**APPLICATIONS**

- Electronic material

**W03:** 90.8%
**Mo:** 0.01%
**Fe:** 0.04%
**Ca:** 0.05%
**Na:** 0.15%
**K:** 0.15%
**Ni:** 0.03%
**Cu:** 0.03%
**Al:** 0.04%
**Mg:** 0.03%
**Ph:** 3.0-5
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