



CORPORATE OVERVIEW

*Engaged in Selling of Tungsten Powder, Buying of Tungsten Scraps and
Manufacturing of wide range of Chemicals*

About iTungsten.com

iTungsten aka Bonsai America, Inc. is engaged in Selling of Tungsten Powder , Buying of Tungsten Scraps and Manufacturing of wide range of Chemicals i.e.

- **Tungsten Metal Powder**
- **Tungsten Trioxide Powder**
- **Ammonium Para Tungstate**
- **Ammonium Tungstate**
- **Tungsten Trioxide**
- **Tungsten Disulphide Powder (WS2)**
- **Ammonium Meta Tungstate**
- **Sodium Meta Tungstate Hydrate**
- **Tungstic Acid (H₂WO₄)**



Our manufacturing & recycling facility is located Offshore. Accurate composition, effectiveness, right formulation and purity are some of the characteristics of Tungsten metal powder by iTungsten.com. We have over three decades experience of manufacturing & catering to growing needs of our clients world-wide. These chemicals are formulated with the help of latest techniques and methods under the able guidance of qualified professionals. We do extensive research before starting the manufacturing process that helps us introduce pure and best quality chemicals. We are formulated with the help of latest and best quality chemicals.

We pay special attention to the quality of our chemical products. We make use of unmatched quality raw material in manufacturing of a variety of chemicals that allow us to offer the best products to our clients. The raw material used includes Tungsten Carbide Scrap, Sodium Nitrate, Calcium Chloride, Liquor Ammonia and Hydrochloric Acid.

Furthermore, stringent quality check programs are conducted before the final delivery of product. We have state-of-the-art lab for quality check process. The lab boasts of all required facilities combined with a team of highly qualified and experienced quality analysts. The assortment is properly tested under their supervision and after being assured about the right formulation and purity, these are delivered at client's desired place.

Over the years, we have obtained a respected position in this business domain. Our entire success is attributed to our quality oriented approach, well equipped infrastructure, and dedicated workforce. Owing to these factors, we have obtained a long list of leading clients, who give us repeated orders.

Our Products

Ammonium Para Tungstate

APT $[(NH_4)_{10}[H_2W_{12}O_{42}] \cdot 4 H_2O]$ is the main intermediate and also the main tungsten raw material traded in the market. APT is usually calcined to yellow (WO_3) or blue oxide ($WO_3 \cdot X$; a slightly substoichiometric trioxide with varying oxygen content).

We supply superior quality Ammonium Para Tungstate. Impeccably manufactured to perfection, our inorganic compounds are widely used in diverse industries.



Usage

Production of tungsten metal and its derivatives, Fire proofing fabrics and cellulose, Reagent for uric acid, Alkaloids, Plasma proteins, Blood sugar, Clinical analysis of blood, Textile (mordant, color resist) plastics, To form metal by reduction, Alloys, Preparation of tungstate for x-ray screen, Yellow pigment in ceramic.

Physical Properties:

- Color : White powder
- Ignition Residue as % WO_3 at 700 : 89 + 1 % Max
- Grain Size F.S.S.S. : 18 - 25 Micron

Chemical Properties



Component	% / PPM
Ca	0.002
Na	0.003
K	0.002
Moly	0.001
Si	0.001
Fe	0.001
Sn	0.001
As	0.001

Tungsten Trioxide Powder

We are manufacturer and supplier of Tungsten Trioxide Powder. This powder has high melting point and is widely used in electrical industry in filaments. We ensure durability on the condition of our output that has been known for its static shelf life.

Use

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

Chemical Properties:



Sr .No.	Maximum allowed	As actual
Ca	10	6
Fe	20	6
K	10	02
Na	15	06
Mo	30	03
Si	10	03
Co	10	03
Wo ₃	99.97%	99.98%

Ammonium Tungstate

We supply superior quality Ammonium Tungstate. Impeccably manufactured to the perfection.

Use

Production of tungsten metal and its derivatives, Fire proofing fabrics and cellulose, Reagent for uric acid, Alkaloids, Plasma proteins, Blood sugar, Clinical analysis of blood, Textile (mordant, color resist) plastics, To form metal by reduction, Alloys, Preparation of tungstate for x-ray screen, Yellow pigment in ceramic.

Physical Properties

- Color : White powder
- Ignition Residue as % Wo_3 at 700 : 89 + 1 % Max
- Grain Size F.S.S.S. : 18 - 25 Micron

Chemical Properties

Component	% / PPM
Ca	0.002
Na	0.003
K	0.002
Moly	0.001
Si	0.001
Fe	0.001
Sn	0.001
As	0.001

Tungsten Trioxide

We are among leading manufacturer, supplier and exporter of a wide range of Tungsten Trioxide which is processed from quality material and using advance technology.

Uses

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

Physical Properties

- Color : Yellow / Green
- Apparent density : 2.2 gm/cc
- Grain size : 9.5 micron

Chemical Properties

Sr .No.	Maximum allowed	As actual
Ca	10	6
Fe	20	6
K	10	02
Na	15	06
Mo	30	03
Si	10	03
Co	10	03
W_o₃	99.97%	99.98%

Tungsten Disulphide Powder (WS2)

Tungsten Disulphide Powder 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%.

Specification

<i>Properties</i>	<i>WS₂</i>
<i>Colour</i>	<i>silver gray</i>
<i>Appearance</i>	<i>crystalline solid</i>
<i>Melting point (°c)</i>	<i>1250°c, 1260°c (decomposes)</i>
<i>Density (kg. M-3)</i>	<i>7500</i>
<i>Molecular weight</i>	<i>248</i>
<i>Coefficient of friction</i>	<i>0. 03 dynamic; 0. 07 static</i>
<i>Lubrication temperature range</i>	<i>ambient: from -273°c to 650°c vacuum (10 -14 torr): from -188oc to 1316°c</i>
<i>Chemical durability</i>	<i>inert substance, non-toxic</i>
<i>Coatable substrates</i>	<i>iron, steel, aluminum, copper, other metals, plastics and manmade solids</i>

Ammonium Meta Tungstate

Ammonium Meta Tungstate salt is soluble in water and is a moderately strong oxidizing agent, but finds no common use in the chemistry laboratory. Ammonium Meta Tungstate provided by us is used for making other intermediaries such as tungsten Blue oxide, tungsten trioxide, ammonium metal tungstate and tungstic acid. The aminobenzene sulphonic acids, particularly the meta and para compounds, are of importance owing to their employment in the color industry.

Specifications:

- Molecular formula : $(\text{NH}_4)_6[\text{H}_2\text{W}_{12}\text{O}_{40}] \cdot \text{H}_2\text{O}$
- Molecular weight : 3,064
- wO_3 theoretical content : 90. 8%
- wO_3 : 90%
- Ignition Loss : 750 c - 10%
- 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%
- Packing : net 25kg carton box

Sodium Meta Tungstate Hydrate

Sodium Meta Tungstate is a new component in the production of heavy solutions. It brings a number of advantages with it when compared to zinc - chloride solutions or highly toxic homogenous hydrocarbons used in sink or swim analysis.

Specifications

- *Molecular Formula : $\text{Na}_6[\text{H}_2\text{W}_{12}\text{O}_{40} \cdot \text{H}_2\text{O}]$ or $3\text{Na}_2\text{WO}_4 \cdot 9\text{WO}_3 \cdot \text{H}_2\text{O}$*
- *Cas name : tungstate (w_{12} (oh) 20386-), hexasodium, hydrate*
- *Mol. Weight : 2968. 12*
- *Appearance : white crystals or light yellow-green transparent solution*
- *Properties : very easily soluble in water, ph-neutral solution, maximum possible density of solution : 3,1 g/cm^3 at 25°C*

Tungstic Acid (H₂WO₄)

Production of tungsten metal and its derivatives, Fire proofing fabrics and cellulose, Reagent for uric acid, Alkaloids, Plasma proteins, Blood sugar, Clinical analysis of blood, Textile (mordant, color resist) plastics, To form metal by reduction, Alloys, Preparation of tungstate for x-ray screen, Yellow pigment in ceramic.

Specifications

<i>H₂WO₄</i>	<i>MOL. Wt: 249.87</i>
<i>Description</i>	<i>An Amorphous Yellow Powder</i>
<i>Total Assay</i>	<i>99.0% Min</i>
<i>Sulphur (S)</i>	<i>0.060% Max</i>
<i>Molybdenum (Mo)</i>	<i>Traces</i>
<i>Arsenic (As)</i>	<i>Less Than 2PPM</i>
<i>Copper (Cu)</i>	<i>0.006% Max</i>
<i>Phosphorous (P)</i>	<i>0.002% Max</i>
<i>Nitrate (NO₃)</i>	<i>0.004% Max</i>
<i>Chlorides (Cl)</i>	<i>0.005% Max</i>
<i>Sulphate (SO₄)</i>	<i>0.015% Max</i>
<i>Iron (Fe)</i>	<i>0.002%</i>

Tungsten Metal Powder (W)

Yellow or blue oxide is reduced to tungsten metal powder by hydrogen. The reduction is carried out either in pusher furnaces, in which the powder passes through the furnace in boats, or in rotary furnaces, at 700-1,000°C.



Tungsten Carbide (WC)

Most of the tungsten metal powder is converted to tungsten carbide (WC) by reaction with pure carbon powder, e.g. carbon black, at 900 - 2,200°C in pusher or batch furnaces, a process called carburization.

Tungsten carbide is, quantitatively, the most important tungsten compound. Because of its hardness, it is the main constituent in cemented carbide (hardmetal).

Contact us

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