Tungsten Chemicals

GTP tungsten chemicals – Ammonium Paratungstate (APT), Ammonium Metatungstate (AMT), and Tungsten Oxide – are manufactured from both secondary raw material (SRM or scrap) or virgin tungsten ore, including wolframite, hubnerite, and scheelite. Global Tungsten & Powders uses our purchased raw material or will arrange tolling agreements with our customers to return high purity tungsten products from your “owned” raw materials.

It is our vertical integration and our non-Chinese supply chain that allow us to provide you with the highest quality tungsten products while maintaining security of supply and controlling costs. Our raw material flexibility ensures a consistent flow of material through our manufacturing processes.

Ammonium Paratungstate (APT):

At our production facility in the USA, we have been manufacturing APT for over 50 years, pioneering many of the techniques that are still used today. At GTP the APT we produce is very pure with impurity levels below 0.003%. GTP ammonium paratungstate is used as a source for high-purity tungsten oxides, tungsten metal powders, carbides, or as a laboratory reagent. Other applications are in the fields of absorbent gels, coloring agent in the porcelain industry, and in the catalyst industry. Our APT is used to manufacture products in numerous different market segments including aerospace, electronics, hard materials, energy and others. We manufacture APT both for internal use and for external sale.
Ammonium Metatungstate (AMT):

Ammonium metatungstate starts with APT and only requires a few additional processing steps including roasting, digesting, filtering, evaporating, and spray drying. AMT is a source of high-purity, water-soluble tungsten which is essentially free of alkali and other metallic impurities. It is mainly used as a raw material in the production of tungsten catalysts for a variety of reactions including oxidation, hydroxylation, hydrogenation, and polymerization. Additionally, AMT is used as a catalyst in the petrochemical industry.

Tungsten Oxide:

Tungsten trioxide is a thermally stable and water insoluble tungsten compound. Tungsten trioxide and Tungsten blue and violet oxides are used in the production of tungsten metal powders. Tungsten oxide at Global Tungsten & Powders are produced from internally manufactured ammonium paratungstate (APT). GTP produces several different types of tungsten with the major difference being the oxygen content.
For additional information, please see the attached Technical Information Bulletins (TIB’s) or contact our Segment Manager – Ian Harper.
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