

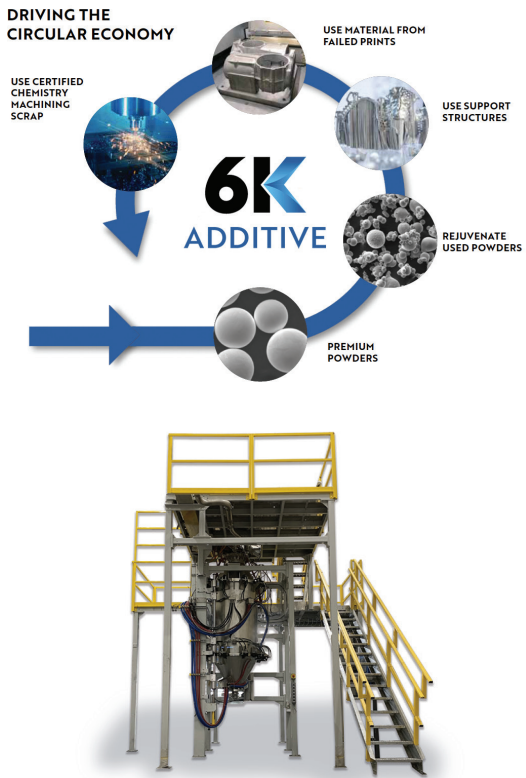
REFRACTORY AM POWDER

**ENVIRONMENTALLY
FRIENDLY**

SUSTAINABLY SOURCED

US PRODUCED

WORLD'S ONLY SUSTAINABLE ADDITIVE MANUFACTURING METAL POWDERS



Additive manufacturing is often defined as a sustainable manufacturing process. However, what is often overlooked is the legacy production processes used to produce metal powders are environmentally unfriendly. Regrettably, these legacy technologies, such as gas atomization, are extremely unsustainable often yielding as little as 20% of usable powder for additive manufacturing. The powder feedstock alone used in legacy systems to produce powders is one of the least sustainable components of the entire process.

Enter 6K's UniMelt® microwave plasma process. The UniMelt platform is highly efficient yielding near 100% of powder during the process while consuming less gas and energy. 6K Additive's process also leverages scrap streams such as certified CNC turnings, used powder and angular feedstock from other processes, turning low value scrap into high-value, premium powder for additive manufacturing. By leveraging feedstock from sustainable sources, 6K's UniMelt platform is the most environmentally friendly powder production process in the additive manufacturing industry.

NEWLY COMMISSIONED STATE OF THE ART POWDER PRODUCTION PLANT

6K Additive's new production facility located in the United States just outside Pittsburgh, PA, is a fully automated, controlled environment that was built with a focus on safety, quality and productivity for the production of the most advanced AM materials. The 45-acre site is home to a powder production plant and fully equipped QC lab. The lab features a robust set of test equipment including gas analysis, ICP, XRD, SEM, EDS to name just a few, as well as industry-standard methods for powder, blending, lot control, and packaging.

The facility is ISO9001 certified with AS9100 certification expected in process. 6K Additive's operations and production staff have extensive experience in alloys, metals reclamation and powder production making this a world class team of experts ready to support your powder needs.



Sophisticated motion control system manages the complete automated powder production process



QC lab with state-of-the-art analytical equipment for powder testing and qualification



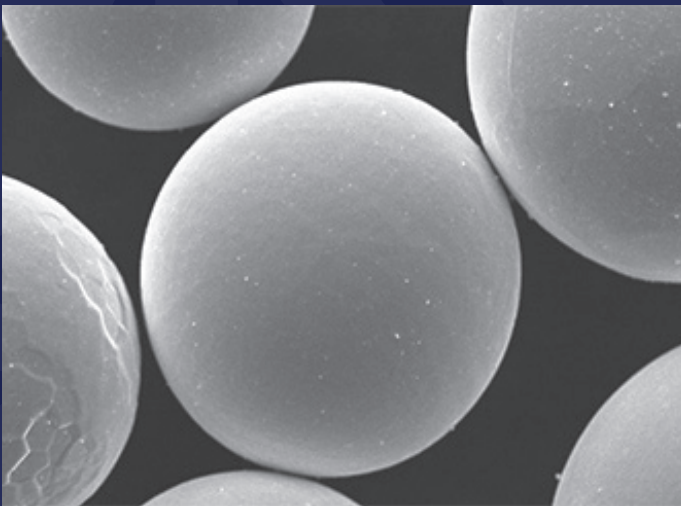
UniMelt systems are closely monitored from a safe, 'lights-out' production control room

6K ADDITIVE REFRACTORY POWDERS

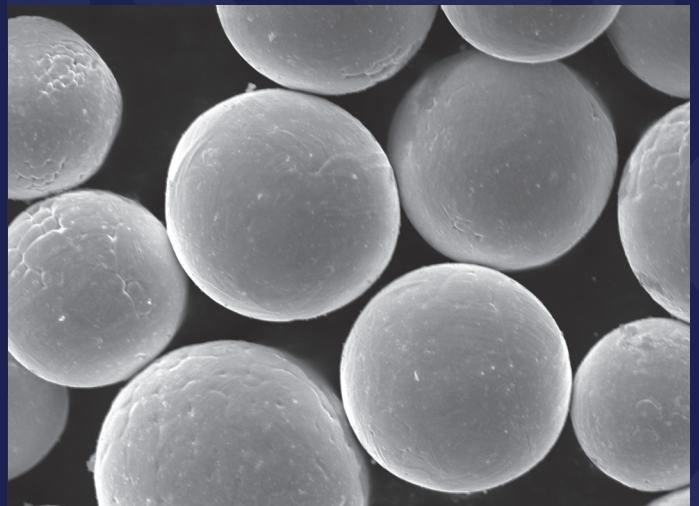
6K Additive is producing refractory metal powders for additive manufacturing. Materials such as tungsten rhenium, tungsten/rhenium and niobium-based powders that offer extraordinary properties are being commercially produced in 6K's UniMelt microwave plasma system today. These refractory materials are used for defense, aerospace and medical industries where high temperature and high strength properties are needed.

HIGH PERFORMANCE PARTS START WITH HIGH PERFORMANCE POWDER

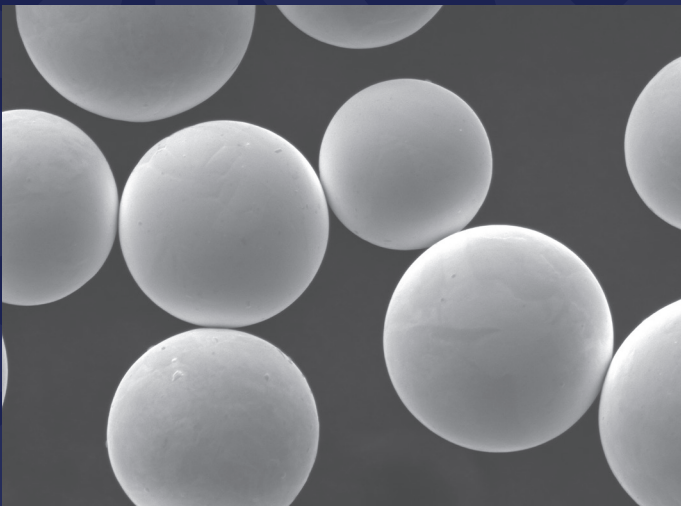
6K Additive's highly spherical refractory powders deliver excellent properties that allow designers to build boldly using additive manufacturing.



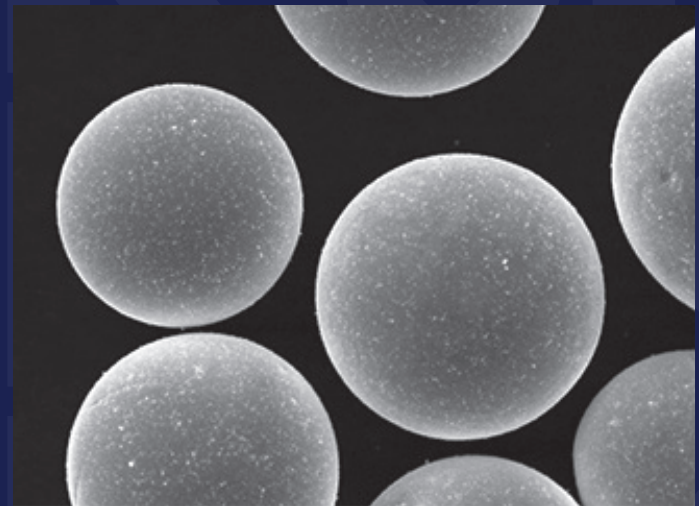
MOLYBDENUM



TANTALUM



RHENIUM



TUNGSTEN

- Shaping the future of sustainable advanced material powder production for Additive Manufacturing
- Significantly lowering the volume of material sent to landfill
- Upcycling scrap material into premium AM powder



6K CORPORATE HEADQUARTERS
25 Commerce Way, N. Andover, MA 01845
978 258 1645



6K ADDITIVE, GLOBAL MANUFACTURING CENTER
541 Steubenville Pike, Burgettstown, PA 15021
724 215 7049

CONTACT US AT: SALES@6KADDITIVE.COM
www.6KAdditive.com

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