

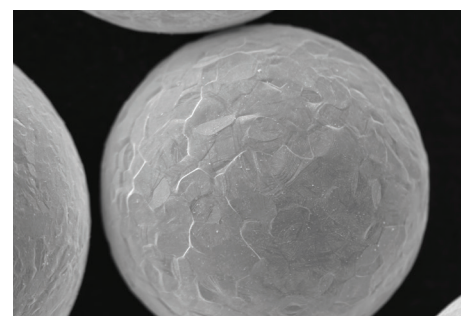
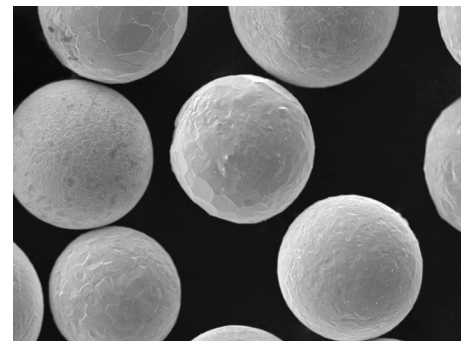
HIGH PERFORMANCE PARTS START WITH HIGH PERFORMANCE POWDER

From 6K's UniMelt® process, the world's only microwave plasma production system comes the highest performing and most versatile set of powders. 6K Additive's spherical tungsten powders deliver excellent material properties that enable designers to take advantage of the design freedom of additive manufacturing. Tungsten has the highest melting point of all the elements combined with its high density and tensile strength makes this material a great choice for nuclear and aerospace applications.

6K Additive has tungsten powder available in a variety of sizes, the representative properties are shown below for a fine cut. We have the ability to customize the PSD if there is a different cut you are interested in. Please talk to one of our representatives today.

NOMINAL CHEMISTRY		POWDER SIZE	
Tungsten	99.9 m.b. (Min)	L-PBF	+45µm 5 wt% (Max)
Chromium	0.1 (Max)		-15µm 10 wt% (Max)
Iron	0.1 (Max)	EB-PBF	+106µm 10 wt% (Max)
Nickel	0.1 (Max)		-45µm 10 wt% (Max)
Oxygen	250ppm (Max)	Binder Jet	+25µm 10 wt% (Max)
			-10µm 10 wt% (Max)

PHYSICAL PROPERTIES			
PSD Size	5 - 25µm	15 - 45µm	45 - 90µm
Apparent Density	10.0 g/cm ³	10.55 g/cm ³	10.60 g/cm ³
Tap Density	11.22 g/cm ³	11.70 g/cm ³	11.30 g/cm ³
Hall Flow	10 s/50g	6 s/50g	7 s/50g



6K Additive Premium Tungsten Powders

- Ultra clean
- High sphericity
- Free flowing
- High apparent density
- Low porosity
- Exceptional lot to lot consistency



HIGH DENSITY POWDER

Unlike competitive technologies, 6K Additive's process delivers highly dense, highly spherical powders without satellites, as shown in microCT of the particle.



DERIVED FROM SUSTAINABLE SOURCES

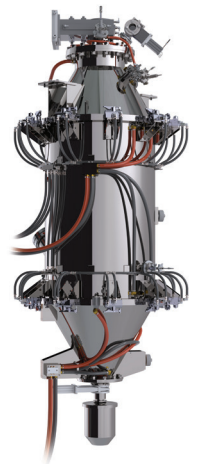
At 6K Additive our powders are produced from sustainable sources including used powders and machine turnings. We leverage these input streams as feedstock for the UniMelt process, essentially turning scrap into high value AM powder. This process enables your organization to get value back from your past powder investment by participating in 6K Additive's powder buy-back program. We will buy your used powder, provide you a credit towards new premium powder for a wide variety of applications.

Key Properties

- High heat resistance
- High tensile strength
- High density
- Exceptional electrical conductivity

Industries

- Aerospace & Defense
- Medical
- Nuclear
- Industrial
- Power



HIGH UNIMELT YIELD AND TUNABLE PSD

6K's UniMelt process can deliver the highest yield in the industry for your target PSD. With our unique microwave plasma technology our production run can be tailored for any additive manufacturing (AM) platform including powder bed fusion, EBM, Binder Jet, direct energy deposition and cold spray plus PM processes like MIM and HIP.

With 6K's UniMelt breakthrough technology we have the capability of producing almost limitless material combinations, allowing you to design with infinite possibilities for your application.

6K Additive's production team has extensive experience in powder production, alloys and metal reclamation. Our 85,000 sq. ft. facility is ISO9001 certified and AS9100 certification is in process.

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