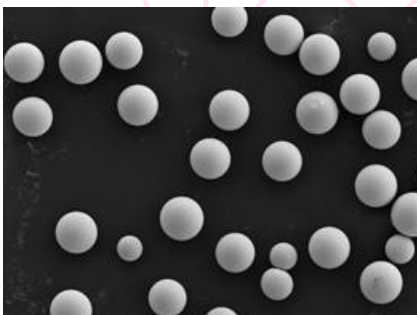


VA 103 S
Vanadium Powder, Spherical

VA 103 S	
Formula	V
Purity	99.8% min metals basis
Particle size	150 – 50 microns

Chemistry			
Element	Typical Results	Element	Typical Results
Vanadium	99.8% min	Silicon	0.018
Iron	0.016	Aluminum	0.028
Oxygen	<0.05	Nitrogen	<0.03

150 – 50 microns			
Apparent Density	>3.75 g/cm ³	Tap Density	>4.83 g/cm ³
Hall Flow Rate	<22 s/50g	Size	50 – 150 microns



VA 103 S is a dark gray powder, spherical in shape, and free flowing. 3D Printing / Additive Manufacturing, superconducting materials, alloys, fuel cell, solar, metallurgical, CVD, PVD, sputtering targets. Vanadium powder can increase the hardness, toughness, corrosion resistance, wear resistance of alloys. It is electrically conductive, and thermally insulating, as well as ductile, malleable (but not brittle). Vanadium is harder than most metals and steels.