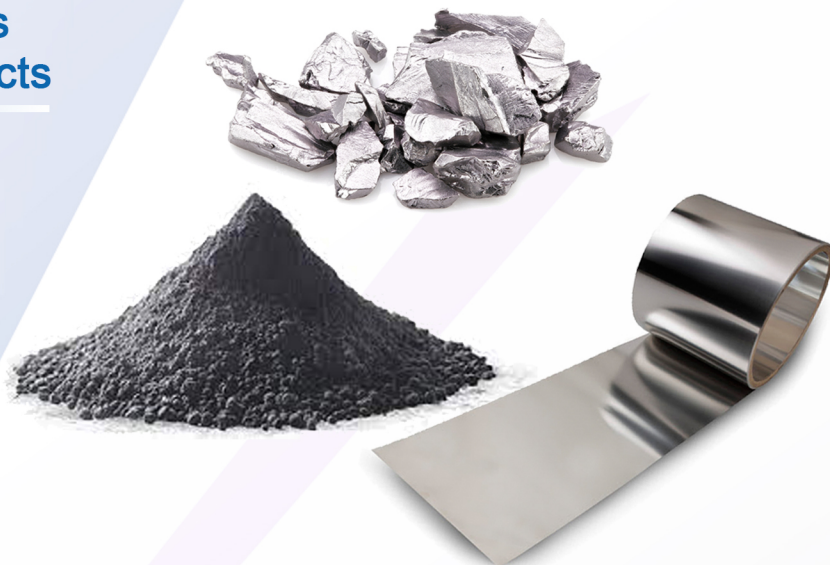


Tantalum Powders Alloys

Customized Fabricated Products

Standard Specification

- ASTM B365 Tantalum and Tantalum alloy rod and wire
- ASTM B521 Tantalum and Tantalum alloy seamless and welded tubes
- ASTM B708 Tantalum and Tantalum alloy plate, sheet and strip
- ASTM F560 unalloyed Tantalum for surgical implant applications



Powders

Tantalum metal powder (Ta): $\geq 99.99\%$, $\geq 99.95\%$, $\geq 99.99\%$
 Tantalum Oxide (Tantalum Pentoxide, Ta_2O_5): $\geq 99.99\%$, $\geq 99.95\%$, $\geq 99.99\%$

Tantalum Chloride (Tantalum Pentachloride, $TaCl_5$): $\geq 99.99\%$

Tantalum Carbide (TaC): $\geq 99.7\%$, $\geq 99\%$

Tantalum Silicide ($TaSi_2$):

Tantalum & Tantalum Alloy

R05200, unalloyed tantalum, electron-beam furnace or vacuum-arc melt, or both

Ro5400, unalloyed tantalum, powder-metallurgy consolidation

R05255, tantalum alloy, 90% tantalum, 10% tungsten

R05252, tantalum alloy, 97.5% tantalum, 2.5% tungsten

R05240, tantalum alloy, 60% tantalum, 40% niobium

Properties of Tantalum

Atomic Number	73	CAS Number	7440-25-7
Atomic Mass	180.95	Melting Point	2996 °C
Boiling Point	5450 °C	Atomic Volume	0.0180(nm ³)
Density at 20 °C	16.6(g/cm ³)	Crystal Structure	body-centred cubic
Lattice Constant	0.3303	Abundance in the Earth's Crust	2.0 (g/t)

Meet
ASTM
specifications
Economical
and competitive

Tantalum and Tantalum Alloys

Materials R05200 99.95% Ta R05400 99.99% Ta R05252 Ta-2.5W R05255 Ta-10W

Product	Description	Standard
Tantalum Sheet / Tantalum Plate	Thickness: 0.003" – 0.4" (0.07–10 mm) Width: 1.18" – 40" (30–1000 mm) Length: 1.18" – 118" (30–3000 mm)	ASTM B708
Tantalum Foil / Tantalum Strip	Thickness: 0.005"–0.020" (0.1270 - 0.50 mm) Width & Length: < 36" x coil (< 915 mm x coil)	ASTM B708
Tantalum Tube / Tantalum Pipe	OD: 0.04" – 6" (1.0-150mm) WT: 0.008" – 0.2" (0.2-5.0mm) L: 8" – 236" (200-6000mm)	ASTM B521 ASTM F560
Tantalum Capillary	OD: 0.012" – 1.38" (0.31–35.00 mm) WT: 0.003" – 0.04" (0.08–1.00 mm) L: <40" (< 1000mm)	ASTM B521 ASTM F560
Tantalum Bar / Tantalum Rod	Diameter: 1" – 8" (25.4 – 200mm), Length: < 236" (< 6000mm)	ASTM B365
Tantalum Wire	Diameter: 0.004" – 0.16" (0.1– 4mm x coil)	ASTM B365 ASTM F560

Material	Product
Tantalum Metal Powder, Ta	99.99%, metallurgical grade 99.95%, metallurgical grade 99.95+% ~ 99.98+%, Capacitor Grade 99.95%, Tantalum Thermal Spray Powder
Tantalum (V) Oxide, Ta ₂ O ₅	99.99%, -325 mesh, -200 mesh,-150 mesh, -80 mesh 99.95%, -325 mesh, -200 mesh,-150 mesh, -80 mesh 99.6%, -325 mesh, -200 mesh,-150 mesh, -80 mesh
Tantalum Chloride, TaCl ₅	99.9%, Tantalum Chloride, TaCl ₅
Tantalum Carbide Powder, TaC	99.7%, APS <3 μm 99%, APS <3 μm



**Shanghai Quken New Material
Technology CO.,LTD**

ADD: Shanghai, China
Tel: +86-021 37782507
E-mail: sales@qukinsh.com
Web: www.qkmaterials.com