



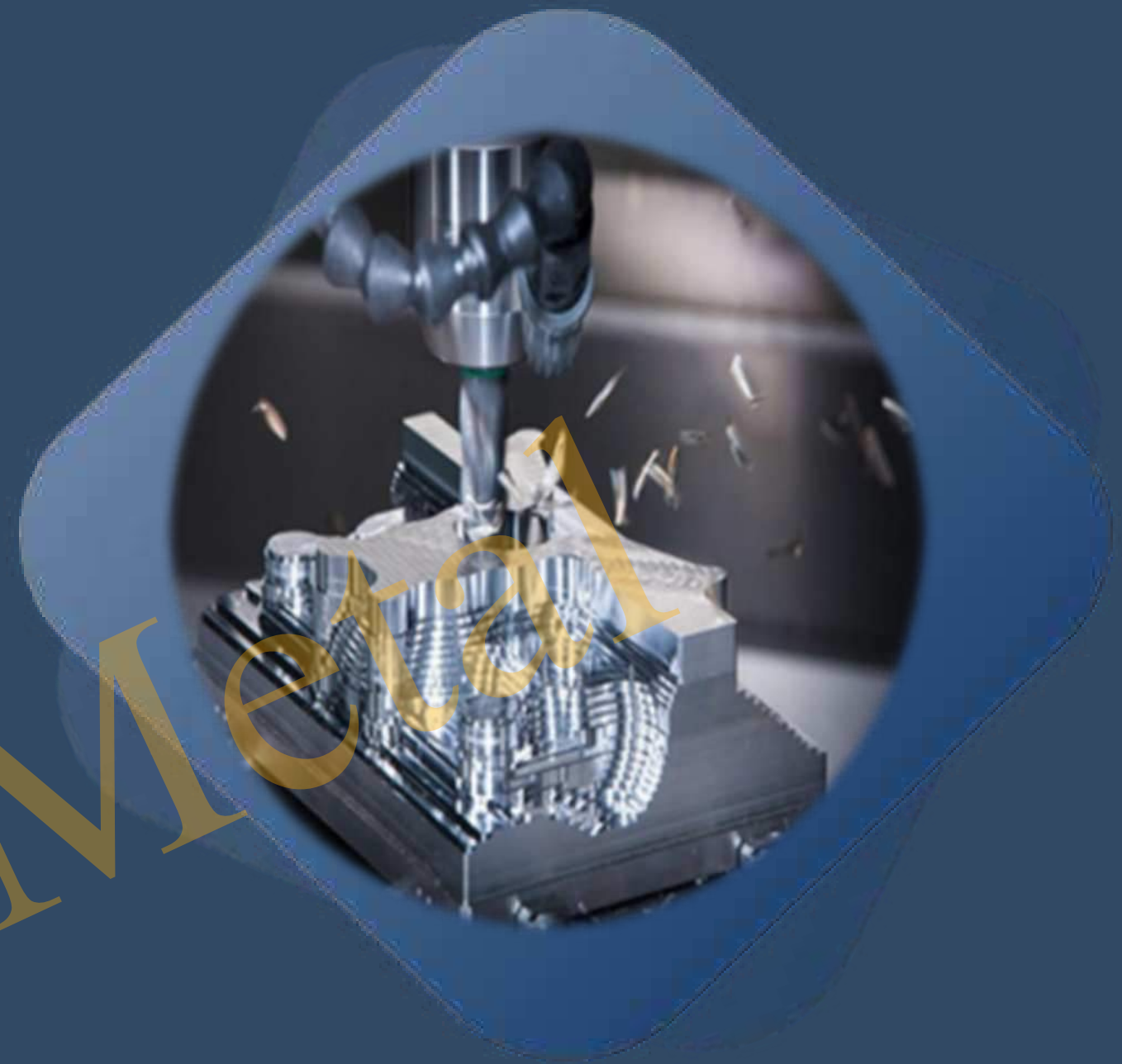
Heeger Metal

Company Profile

heegermetal.com

About Our Company

Heeger Metal specializes in providing high-performance refractory metals, rare earth metals, and custom alloys, delivering precision-engineered products to meet the demanding needs of industries worldwide.



HM Owns A Cutting-Edge Precision Machining Center

HM has an advanced production center with the latest equipment, offering high-precision, efficient manufacturing services to ensure product quality meets international standards and customer needs.

Our Core Materials

With advanced machining capabilities, **Heeger Metal** produce high-precision tungsten, molybdenum, niobium, and other refractory metal products in various forms, including rods, tubes, plates, wires, powder, custom parts and foils etc. providing customized solutions according to specific requirements.



Tantalum & Alloys

Pure Tantalum Metal, Ta10W Alloy, Ta2.5W Alloy.



Niobium & Alloys

Pure Niobium Metal, R04200, R04210



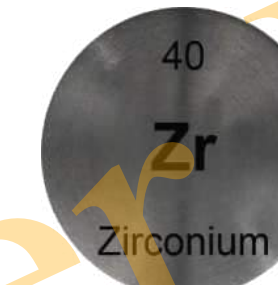
Tungsten & Alloys

Pure Tungsten Metal, Tungsten-heavy alloys included WNiFe, WNiCu, WRe Alloys, WCu Alloys.



Molybdenum & Alloys

Pure Molybdenum metal, MoLa Alloys, TZM



Zirconium & Alloys

Pure Zirconium Metal, Zr702, Zr704, Zr705



Hafnium & Alloys

Pure Hf Metal, Hf+Zr≥99.95%, Zr≤0.2%/0.5%/1.0%



Titanium & Alloys

Pure Ti Metal, Ti-6Al-4V, Ti-6Al-4V ELI, Ti-5Al-2.5Sn



HEA Alloys

Customized HEA Alloys, WMoTaNbV, FeCoNiCrMn, FeCoNiCrAl.



Master Alloys

VN, BiMn, BiSe, SiTi, TeMn, ZrAl, ZrFe, WCe, or Customized.



Nitinol Alloys

NiTi, NiTiFe, NiTiCu, NiTiCo, NiTiCuCr, NiTiNb, etc.

Tantalum & Alloys

Tantalum is a dense, corrosion-resistant metal with a high melting point (3,000°C). It is stable in extreme environments and is widely used in aerospace, electronics, and chemical processing. Its biocompatibility also makes it suitable for medical implants.

Main Products

- Tantalum Rod/Bar
- Tantalum Powder
- Tantalum Sputtering Target
- Tantalum Foam
- Tantalum Tube/Pipe
- Tantalum Mesh
- Tantalum Foil/Strip/Ribbon
- Tantalum Custom Parts
- Tantalum Ingot
- Tantalum Crucible
- Tantalum Plate/Sheet/Disc
- Tantalum Wire



Tantalum Mesh



Tantalum Crucible



Tantalum Custom Parts



Tantalum Foam



Tantalum Foil/Stripe/Ribbon



Tantalum Ingot



Tantalum Plate/Sheet/Disc



Tantalum Powder



Tantalum Rod/Bar



Tantalum Target



Tantalum Tube/Pipe



Tantalum Wire

Niobium & Alloys

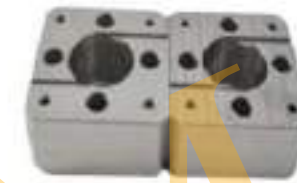
Niobium is a ductile, corrosion-resistant metal with a high melting point (2,477°C). It has excellent superconducting properties and is widely used in aerospace, electronics, and medical applications. Its strength and oxidation resistance make it valuable for high-performance alloys.

Main Products

- Niobium Rod/Bar
- Niobium Powder
- Niobium Sputtering Target
- Niobium Foam
- Niobium Tube/Pipe
- Niobium Mesh
- Niobium Foil/Strip/Ribbon
- Niobium Custom Parts
- Niobium Ingot
- Niobium Crucible
- Niobium Plate/Sheet/Disc
- Niobium Wire



Niobium Crucible



Niobium Custom Parts



Niobium Foam



Niobium Foil/Strip/Ribbon



Niobium Ingot



Niobium Mesh



Niobium Plate/Sheet/Disc



Niobium Powder



Niobium Rod/Bar



Niobium Sputtering Target



Niobium Tube/Pipe



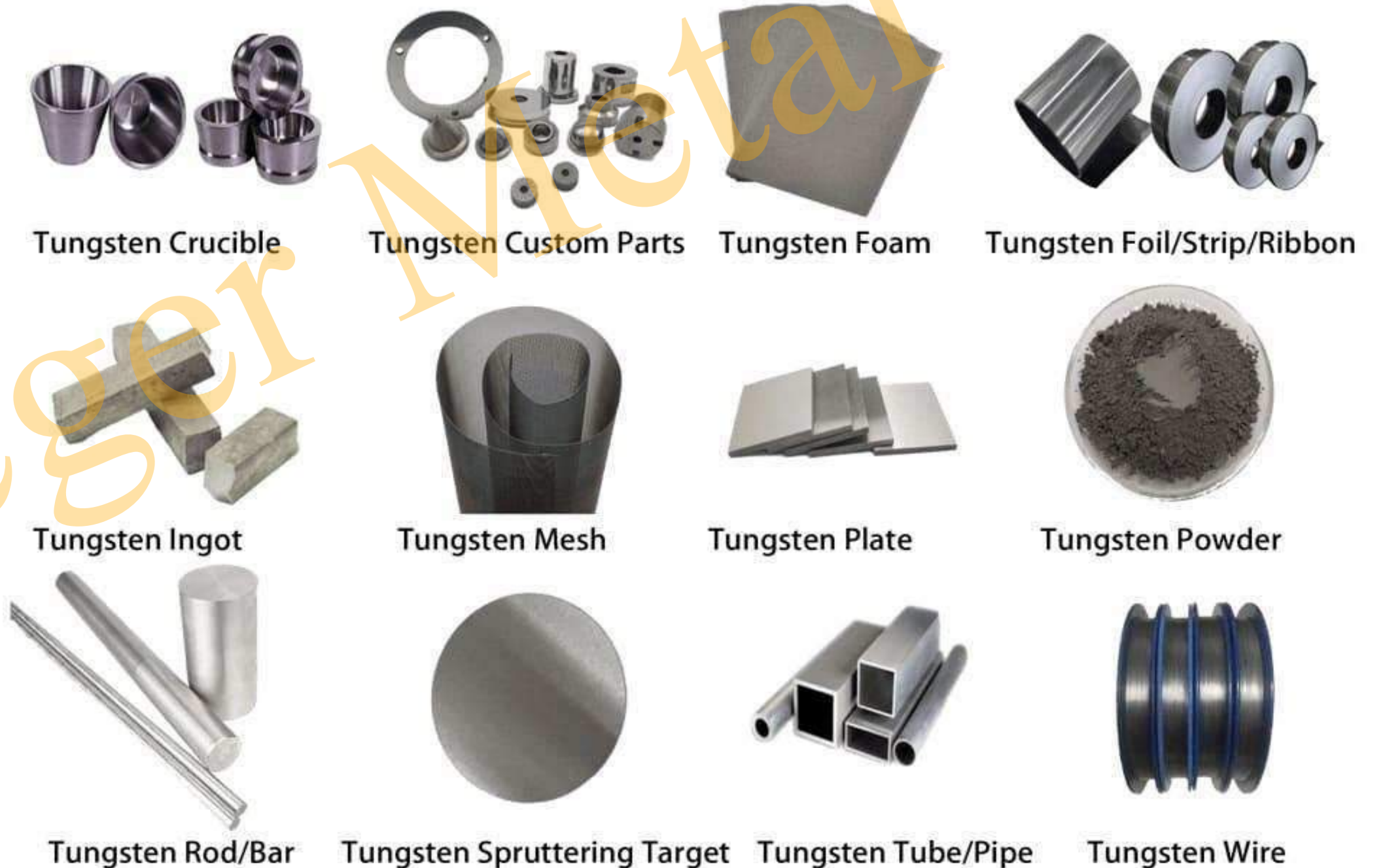
Niobium Wire

Tungsten & Alloys

Tungsten is a dense metal with an exceptionally high melting point (3,422°C) and excellent hardness. It has high thermal and electrical conductivity, making it essential for aerospace, electronics, and high-temperature applications. Its strength and wear resistance also make it valuable for cutting tools and heavy-duty components.

Main Products

- Tungsten Rod/Bar
- Tungsten Powder
- Tungsten Sputtering Target
- Tungsten Foam
- Tungsten Tube/Pipe
- Tungsten Mesh
- Tungsten Foil/Strip/Ribbon
- Tungsten Custom Parts
- Tungsten Ingot
- Tungsten Crucible
- Tungsten Plate/Sheet/Disc
- Tungsten Wire



Molybdenum & Alloys

Molybdenum is a strong, heat-resistant metal with a high melting point (2,623°C) and excellent corrosion resistance. It has good thermal and electrical conductivity, making it essential for aerospace, electronics, and high-temperature applications. It is also used to strengthen alloys and improve their performance.

Main Products

- Molybdenum Rod/Bar
- Molybdenum Powder
- Molybdenum Sputtering Target
- Molybdenum Foam
- Molybdenum Tube/Pipe
- Molybdenum Mesh
- Molybdenum Foil/Strip/Ribbon
- Molybdenum Custom Parts
- Molybdenum Ingot
- Molybdenum Crucible
- Molybdenum Plate/Sheet/Disc
- Molybdenum Wire



Zirconium & Alloys

Zirconium is a strong, corrosion-resistant metal with a high melting point (1,855°C). It is highly resistant to acids and seawater, making it valuable for nuclear reactors, chemical processing, and aerospace applications. Its biocompatibility also makes it suitable for medical implants.

Main Products

- Zirconium Crystal Bar
- Zirconium Powder
- Zirconium Sputtering Target
- Zirconium Rod/Bar
- Zirconium Tube/Pipe
- Zirconium Mesh
- Zirconium Foil/Strip/Ribbon
- Zirconium Custom Parts
- Zirconium Ingot
- Zirconium Crucible
- Zirconium Plate/Sheet/Disc
- Zirconium Wire



Zirconium Crucible



Zirconium Crystal Bar



Zirconium Custom Parts



Zirconium Foil



Zirconium Ingot



Zirconium Mesh



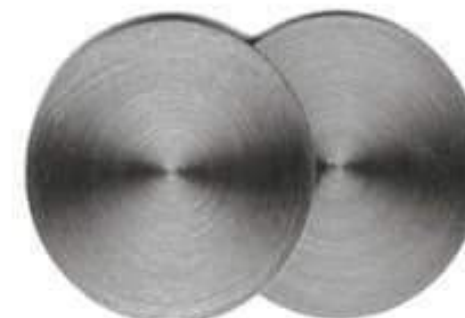
Zirconium Sheet



Zirconium Powder



Zirconium Rod/Bar



Zirconium Sputtering Target



Zirconium Tube/Pipe



Zirconium Wire

Hafnium & Alloys

Hafnium is a dense, corrosion-resistant metal with a high melting point (2,233°C) and excellent neutron absorption properties. It is widely used in nuclear reactors, aerospace, and high-temperature applications. Its stability and resistance to oxidation make it valuable for advanced engineering materials.

Main Products

- Hafnium Crystal Bar
- Hafnium Powder
- Hafnium Sheet
- Hafnium Rod/Bar
- Hafnium Tube/Pipe
- Hafnium Plate
- Hafnium Foil/Strip/Ribbon
- Hafnium Custom Parts
- Hafnium Ingot
- Hafnium Crucible
- Hafnium Disc
- Hafnium Wire



Hafnium Crucible



Hafnium Crystal Bar



Hafnium Custom Parts



Hafnium Disc



Hafnium Foil/Strip/Ribbon



Hafnium Ingot



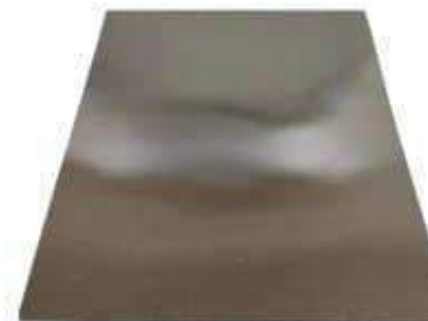
Hafnium Plate



Hafnium Powder



Hafnium Rod/Bar



Hafnium Sheet



Hafnium Tube/Pipe



Hafnium Wire

Titanium & Alloys

Titanium is a strong, lightweight metal with excellent corrosion resistance and a high melting point (1,668° C). It has a high strength-to-weight ratio and is widely used in aerospace, medical implants, and chemical processing. Its biocompatibility makes it ideal for medical and dental applications.

Main Products

- Hafnium Foam
- Hafnium Powder
- Hafnium Sheet/Plate/Disc
- Hafnium Rod/Bar
- Hafnium Tube/Pipe
- Hafnium Mesh
- Hafnium Foil/Strip/Ribbon
- Hafnium Sputtering Target
- Hafnium Ingot
- Hafnium Crucible
- Hafnium Custom Parts
- Hafnium Wire



Titanium Crucible



Titanium Custom Parts



Titanium Foam



Titanium Foil/Strip/Ribbon



Titanium Ingot



Titanium Mesh



Titanium Sheet/PLate/Disc



Titanium Powder



Titanium Rod/Bar



Titanium Sputtering Target



Titanium Tube/Pipe



Titanium Wire

High Entropy Alloys

High Entropy Alloys (HEAs) offer exceptional strength, stability, and corrosion resistance for aerospace, automotive, and energy applications. Heeger Metal provides HEAs in plate, powder, and custom forms to meet specific needs.

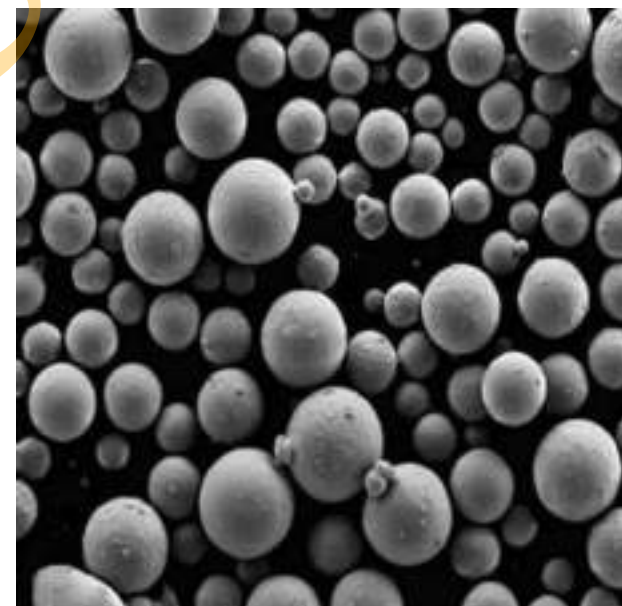
Main Products

➤ High-Entropy Alloy Custom Parts

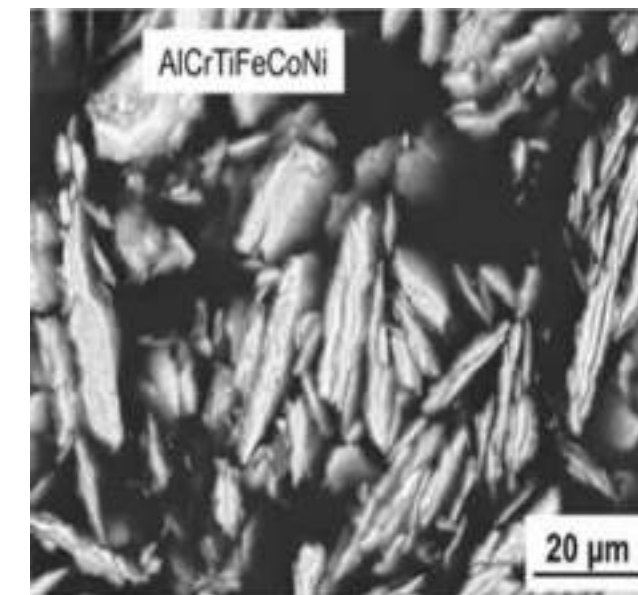
- ✓ Material: FeMnCoCr, TiZrHfVNb, TiNbMoTaW, TiAlCrZr, CoCrFeNiMn, WMoTaZr, Al₄TiVFeSc, or Customized.
- ✓ Shape: Ingot/Plate/BMG (Bulk Metallic Glass)/Tensile Specimen/Custom Part

➤ High-Entropy Alloy Powder

- ✓ Material: WMoTaNbZr, AlCoCrFeNi, FeMnCoCrC, CoCrNi, NiCrAlY, or Customized.
- ✓ Shape: Spherical Powder, Irregular Powder



FeCoNiCrTi HEA Spherical Powder SEM



AlCrTiFeCoNi HEA Powder Flaky Morphology

Master Alloys

Master Alloys enhance the properties of base metals through precise alloying, offering improved performance for aerospace, automotive, and casting applications. Heeger Metal provides high-quality aluminum-based, titanium-based, and nickel-based alloys with reliable consistency.

Main Products

- Copper-Based Master Alloy
- Ferro-Based Master Alloy
- Aluminum-Based Master Alloy
- Cobalt-Based Master Alloy
- Magnesium-Based Master Alloy
- Nickel-Based Master Alloy
- Custom Master Alloy



Main Form

- Custom Master Alloy
- Cut-waffle Ingot
- Rod
- Shot
- Ingot

Nitinol Alloys

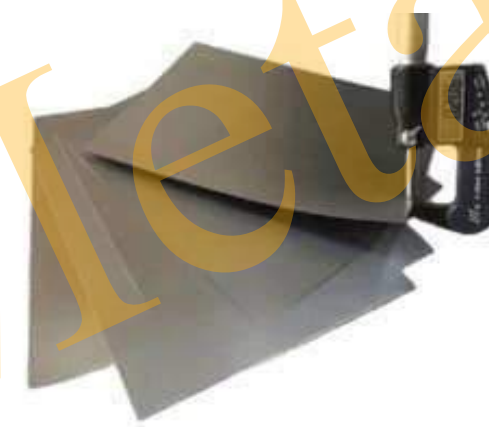
Nitinol Alloy is a shape memory alloy composed of approximately 55% nickel and 45% titanium, which possesses excellent shape memory effects, superelasticity, biocompatibility and corrosion resistance. It has a wide range of applications in medical devices (stents, catheters), aerospace (actuators, sensors), robotics (flexible joints, actuators) and consumer electronics (eyeglass frames, cell phone antennas).

Main Products

- Nitinol Powder
- Nitinol Custom **Parts**
- Nitinol Plate/Sheet
- Nitinol Tube
- Nitinol Rod
- Nitinol wire
- Nitinol Foil/Strip



Nitinol Foil/Strip



Nitinol Plate/Sheet



Nitinol Powder



Nitinol Tube



Nitinol Rod



Nitinol Wire



Nitinol Laser-Cut Parts



Nitinol Spring



Nitinol Washer

Main Products Applications

Material	High-Temperature Structures	Electronics & Electrical	Medical & Biological	Chemical & Corrosion Resistance	Defense & Military
Tungsten (W)	Turbine blades, nozzles	Filaments, X-ray targets	-	-	Penetrators, armor
Molybdenum (Mo)	Furnace components	Electrodes, supports	-	Some corrosion-resistant parts	Missile components
Tantalum (Ta)	-	Capacitors, sputtering targets	Marker bands, implants	Chemical vessels	-
Niobium (Nb)	-	Superconductors, components	Biocompatible implants	Chemical pipelines	-
Zirconium (Zr)	Nuclear reactor parts	-	-	Nuclear chemical equipment	-
Titanium (Ti)	Aerospace structures	-	Orthopedic implants, dental implants	Heat exchangers, seawater pipes	Lightweight structures
High-Entropy Alloy (HEA)	High-temp engine parts	-	-	Corrosion-resistant environments	Advanced armor
Master Alloy	Enhances high-temp alloys	Conductive/semiconductor alloys	-	-	Enhances military alloys
Nitinol Alloy	-	-	Stents, orthodontics	-	-

Connect With Us.



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