



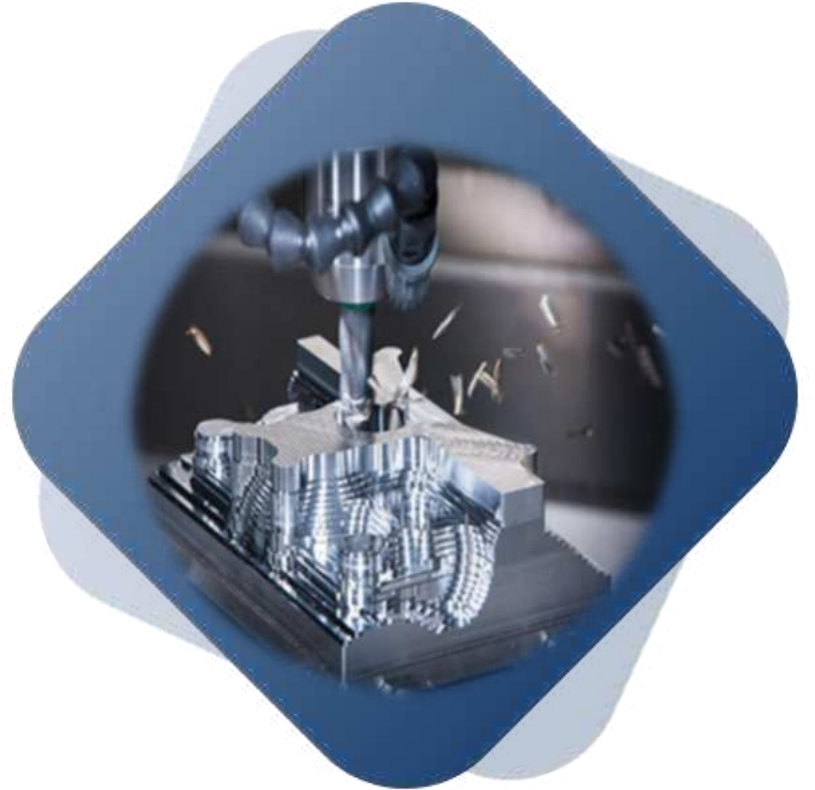
**H** Heegermaterials

# Company Profile

Heeger Materials Inc.

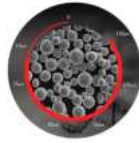
# About Our Company

- **Heeger Materials** is a leading supplier and manufacturer of high-quality products tailored for global customers.
- Our mission is to deliver superior products that empower our customers to achieve their goals efficiently.



# Our Core Materials

Committed to excellence, **Heeger Materials** leverages cutting-edge technology and rigorous quality control to ensure that our offerings meet the highest industry standards.



## Spherical Powder

High-quality spherical metal and alloy powders suitable for 3D printing and other applications.



## Sputtering Targets

A wide array of sputtering targets for thin-film deposition, available in various materials to meet specific industry needs.



## Refractory Metals

Durable metals that retain their strength at high temperatures, including Tantalum, Tungsten, Molybdenum, and others.



## Rare Earth Materials

Essential elements for modern technologies, including rare earth metal, oxide, compounds, and more.



## High Purity Materials

Materials with high purity levels for specialized applications, ensuring optimal performance and quality.



## Technical Ceramics

Advanced ceramic materials designed for engineering applications, offering high strength and resistance.

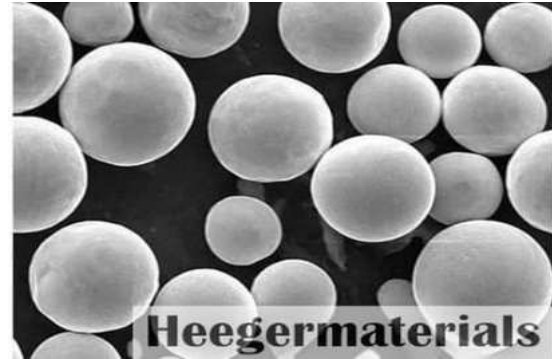
# Spherical Powder

## Main Products

- **Cobalt Alloy Powders:** CoCrMo, CoCrMoW
- **Titanium Alloy Powders:** Ti-6Al-4V, TiMoZr
- **Aluminum Alloy Powders:** AlSi10Mg, AlMgSc
- **High-entropy Alloy (HEA) Powders:** WMoTaNbV, FeCoNiCrMo
- **Soft Magnetic Alloy Powders:** FeSiAl, FeSiCr
- **Brazing Alloy Powders:** SnAgCu, CuSnTi

## Applications

- Additive Manufacturing
- Metal Injection Molding (MIM)
- Coating and Spray
- Hot Isostatic Pressing (HIP)



# Sputtering Targets

## Main Products

- **Pure Metal Sputtering Targets:** Al, Sb, Cd, Cr, Eu, Gd
- **Alloy Sputtering Targets:** Al/Ti, Cr/V, Ce/Gd, Ti/Al/V
- **Ceramic Sputtering Targets:** BN, SiC, WC, AlN
- **Composite Sputtering Targets:** ZnO/Al<sub>2</sub>O<sub>3</sub>, ZrO<sub>2</sub>/Y<sub>2</sub>O<sub>3</sub>



## Applications

- **Physical Vapor Deposition (PVD) Sputtering Targets:**  
Vacuum Evaporation, Sputtering, and other techniques.
- **Chemical Vapor Deposition (CVD) Sputtering Targets:**  
Chemical Vapor Deposition processes.



SiC Sputtering Target

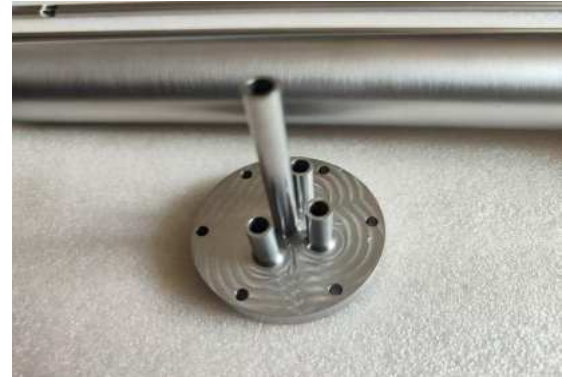
# Refractory Metals

## Main Products

- **HM** offers a range of high-performance refractory metals, including **tungsten (W)**, **molybdenum (Mo)**, **tantalum (Ta)**, **niobium (Nb)**, **zirconium (Zr)**, **hafnium (Hf)**, **rhenium (Re)**, and their alloys, known for their high melting points, strength, and resistance to thermal and chemical degradation.

## Applications

- **Grain Refinement:** Essential for casting high-temperature alloy steels and nonferrous metals.
- **Medical Devices:** Tantalum and rhenium are used in artificial joints and implantable devices.
- **Industrial Applications:** Tungsten and molybdenum are used in high-temperature furnaces and electrodes.
- **Aerospace Industry:** Commonly used for aircraft engine parts that withstand high temperatures and pressures.



Molybdenum Customized Part

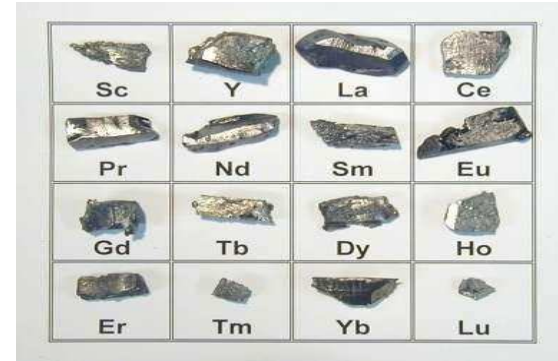
# Rare Earth Materials

## Main Products

- **HM** specializes in providing **La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Sc,** and **Y**, along with their oxides and alloys. These materials are crucial for various advanced applications due to their unique magnetic, luminescent, and catalytic properties.

## Applications

- **Metallurgy and alloys**
- **Catalysts**
- **Ceramics, pigments, and glazes**
- **Permanent magnets**



Cerium (Ce) Rods

# High Purity Materials

## Main Products

**HM** specializes in manufacturing high purity and ultra-high purity materials ranging from 99.99% (4N) to 99.999999% (8N). Available forms include ingot, granule, lump, crystal, rod, and powder.

- **Pure metal:** Gallium (Ga), Germanium (Ge), Indium (In), Antimony (Sb)
- **Oxides:** CdO, SnO<sub>2</sub>, TeO<sub>2</sub>, Bi<sub>2</sub>O<sub>3</sub>, In<sub>2</sub>O<sub>3</sub>, Bi<sub>2</sub>Te<sub>3</sub>
- **Compounds:** CdTe, CdS, SnTe, SnS, GeS, CuInS<sub>2</sub>

## Applications

- Thin film deposition
- Crystal growth of semiconductors
- Synthesis of nanomaterials
- Advanced microelectronics, solar cells, fuel cells, and optical materials



Bismuth Telluride (Bi<sub>2</sub>Te<sub>3</sub>)



# Technical Ceramics

HM's technical ceramics are designed for high-performance applications, providing exceptional strength, thermal stability, and chemical resistance. Available forms include components, substrates, and custom shapes.

## Main Products

- Alumina (aluminum oxide,  $Al_2O_3$ )
- Boron Nitride (BN) and Pyrolytic Boron Nitride (PBN)
- Zirconia (zirconium oxide,  $ZrO_2$ )
- Silicon Nitride ( $Si_3N_4$ ) and SiAlON (alumina substituted into silicon nitride)
- Aluminum Nitride (AlN)
- Tungsten Carbide (WC)
- Silicon Carbide (SiC)
- Boron Carbide (BC) and diamond

## Applications

- Aerospace, Automotive, Electronics



ZSBN Tube

# Connect with us.



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