STANFORD
ADVANCED MATERIALS



Hafnium

Customized Machined & Fabricated Metal and Alloy Products



Exceeds or Meets ASTM Specifications
A Trusted 20+ Year Supplier in the US Market

Benefits

99.95% Crystal Hafnium Metal
99.9% Hafnium Oxide Powder
Exceeds ASTM Standards

Standard Specification

- ASTM B776 Hafnium and Hafnium Alloy Strip, Sheet, and Plate
- ASTM B737 Hot-Rolled and Cold-Finished Hafnium Rod and Wire
- ASTM C1098 Hafnium Oxide Powder

Hafnium & Hafnium Compound Products

Product	Standard
Hafnium Sheet / Strip	ASTM B776
Hafnium Bar / Wire	ASTM B737
Hafnium Sputtering Target	Hf+Zr>99.95%,Zr<0.5%
Low Zirconium Crystal Hafnium	Hf+Zr>99.95%,Zr<0.5%
High Zirconium Crystal Hafnium	Hf+Zr>99.95%,Zr<3%

Hafnium Metal Properties (Theoretical)

Molecular Weight	178.49	Electrical Resistivity	35.1 microhm-cm @ 25°C
Appearance	Silver	Thermal Conductivity	0.230 W/cm/K @ 298.2 K
Melting Point	2227°C	Thermal Expansion	(25 °C) 5.9 μm·m-1·K-1
Boiling Point	4602°C	Vickers Hardness	1760 MPa
Density	13.31 g/cm3	Young's Modulus	78 GPa

Hafnium Metal Products







Hafnium Compound Products

Item No.	Product	Standard	Lot Size
HF3280	Hafnium Oxide Powder	Hf+Zr>99.9%,Zr<0.5% D50 < 1.0 μm Surface area: > 8 -20 m2/g	50kg / 100kg
CA1390	Hafnium Carbide Powder	Hf+Zr > 99.5%	50kg / 100kg
NR1742	Hafnium Nitride Powder	Hf+Zr > 99.5%	50kg / 100kg
BC1687	Hafnium Diboride Powder	Hf+Zr > 99.5%	50kg / 100kg



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