

# HAFNIUM BORIDE Powder

## Quick Facts

<b>Product</b>	:	Hafnium Boride Powder
<b>Stock No</b>	:	NS6130-12-000459
<b>CAS</b>	:	12007-23-7
<b>Form</b>	:	Powder
<b>Purity</b>	:	99.9%
<b>APS</b>	:	< 45µm

Hafnium diboride belongs to the class of Ultra-high-temperature ceramics, a type of ceramic composed of hafnium and boron. Hafnium diboride is also investigated as a possible new material for nuclear reactor control rods. It is also being investigated as a microchip diffusion barrier. It is used in hypervelocity re-entry vehicles like ICBM heat shields or aerodynamic leading-edges. It is useful in the preparation of high temperature composites in conjunction with silicon carbide (SiC).

## Technical Specification

<b>Molecular Formula</b>	:	HfB <sub>2</sub>
<b>Molecular Weight</b>	:	200.11g/mol
<b>Density</b>	:	10.5 g/cm <sup>3</sup>
<b>Melting Point</b>	:	3250°C

**APS**  
< 45µm



**NS6130-12-000459**

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