

# MAGNESIUM DIBORIDE POWDER

Stock No: NS6130-12-001374



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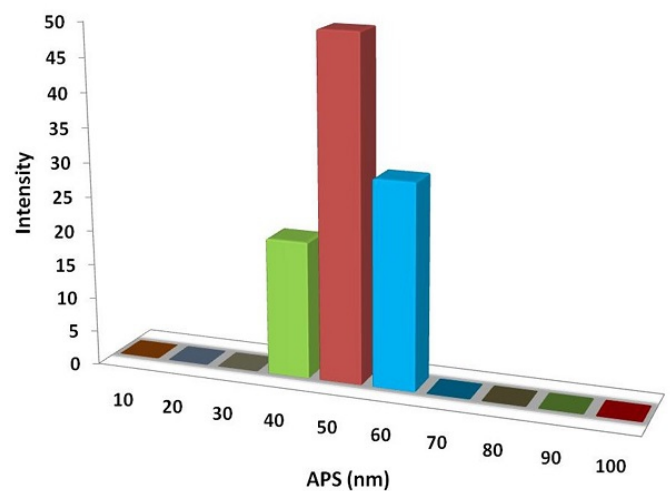
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## Magnesium Diboride Powder

Magnesium diboride is the inorganic compound with the formula  $MgB_2$ . Magnesium diboride ( $MgB_2$ ) is an inexpensive and simple superconductor. The compound has attracted attention because it becomes superconducting at 39 K ( $-234^\circ\text{C}$ ). It can be used for a variety of applications such as hydrogen storage, high energy fuel and high field superconductors, superconducting transformers, rotors, transmission cables, superconducting radio frequency cavities to minimize energy loss. Magnesium Boride exhibits super conducting properties and utilized in MRI superconducting magnet, which is a closed-loop cryocooler. It is used as propellants, pyrotechnics and explosives. It can be used as high temperature boron-based thermoelectric materials.

### Quick Facts

Product	: Magnesium Diboride Powder
Color	: Gray Powder
Stock No	: NS6130-12-001374
CAS	: 12007-25-9
Purity	: 99.9%
APS	: 40-60 $\mu\text{m}$
Other Metal	: 850ppm



## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
$MgB_2$	45.93g/mol-1	2.57g/cm <sub>3</sub>	830°C

## Applications

- Electronic devices
- High field superconductors, Superconducting transformers
- Rotors, Transmission cables
- Superconducting radio frequency cavities to minimize energy loss.

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