

# FERRIC BORIDE POWDER

Stock No: NS6130-12-000819



Follow us:



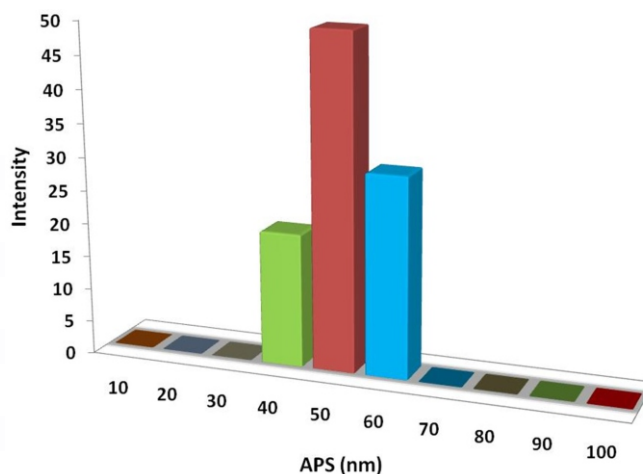
| [www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)

## Ferric Boride Powder

Iron boride refers to various inorganic compounds with the formula  $Fe_xBy$ . Two main iron borides are  $FeB$  and  $Fe_2B$ . Iron borides possess useful properties such as magnetism, electrical conductivity, corrosion resistance and extreme hardness. Some iron borides have found use as hardening coatings for iron. Iron borides have properties of ceramics such as high hardness, and properties of metal properties, such as thermal conductivity and electrical conductivity. Iron boride is used in the production of borated steels and borated stainless steels, deoxidizing agents, increase the hardness of steel, and alloying components of coatings applied to weld-facing electrodes. It is also used to improve abrasion resistance, wear resistance, and oxidation resistance. It is used in oil and gas refinery, chemical extraction, automotive, agricultural, stamping, textile extrusion and injection molding industries.

### Quick Facts

Product	: Ferric Boride Powder
Color	: Gray Powder
Stock No	: NS6130-12-000819
CAS	: 12006-84-7
Purity	: 99.9%
APS	: 40-60 $\mu$ m
Other Metal	: 800ppm



## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
$Fe_2B$	66.66 g/mol	7.15 g/cm $_3$	1300-1600 $^{\circ}$ C

## Applications

- Improve abrasion resistance, corrosion resistance
- Wear resistance, and oxidation resistance
- Used in oil and gas refinery, chemical extraction
- Automotive, agricultural, stamping, textile extrusion
- Injection molding industries.

ISO 9001:2015  
CERTIFIED COMPANY



202ICE4589C



19ZAZG01274G



202ICE4588M

**INTELLIGENT MATERIALS PVT LTD**  
Derabassi  
Punjab (140507)  
INDIA

+91 9779 550077, 9779238252

**NANOSHEL UK LIMITED**  
Chapel House,  
Chapel St Cheshire,  
CW12 4AB United Kingdom

+44 1782 454 144, +44 74 105 48802

**NANOSHEL LLC**  
3422 Old Capitol Suit  
1305 Wilmington DE - 19808  
United States

+1 646 470 4911

