

MOLYBDENUM NITRIDE POWDER

Stock No: NS6130-05-532

MoN



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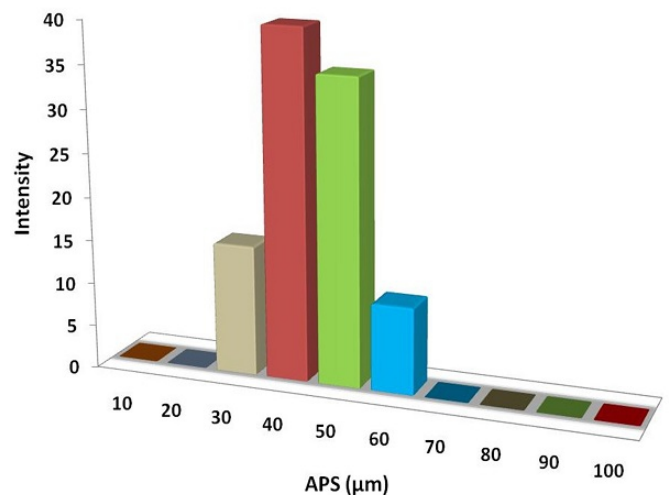
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Molybdenum Nitride Powder

Molybdenum reacts with nitrogen to form three nitrides, MoN, Mo₂N, and Mo₃N. The most stable nitrides are MoN and Mo₂N. MoN is a simple hexagonal lattice structure. Molybdenum nitrides have been much less studied even though their mechanical properties as well as their electrical and catalytic properties make them very attractive for many applications. Molybdenum nitride has high melting point and hardness, good thermal stability and mechanical stability, and excellent corrosion resistance. It is widely used in various fields such as high-temperature resistance, friction resistance, and chemical corrosion resistance. In addition, it has similar electronic structures and catalytic properties of noble metals and can be widely used in reactions involving hydrogens, such as alkane isomerization, unsaturated hydrocarbon hydrogenation, hydrodesulfurization, and denitrification.

Quick Facts

Product	:	Molybdenum Nitride Powder
Color	:	Black/ Gray Powder
Stock No	:	NS6130-05-532
CAS	:	12033-31-7
Purity	:	99%
APS	:	40-50µm
Other Metal	:	8500ppm



Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
MoN	109.94 g/mol	9.2 g/cm ₃	645 °C

Applications

- Catalyst materials
- Filler of modified pigment and modified ink

ISO 9001:2015
CERTIFIED COMPANY



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