

Technical Data Sheet

Molybdenum Boride Powder

Product ID: 420500PD001

Formula: Mo₂B

Molecular weight: 202.69 g/mol

CAS No.: 12006-99-4

EINECS No.: 234-502-8

Color: Dark gray

Description: Molybdenum Diboride powder features high hardness, excellent wear resistance, thermal stability, and good electrical conductivity.

Application: Wear-resistant coatings, cutting tools, cermets, high-temperature structural materials, and advanced ceramic composites.

**Product
Image:**



1. Sizes

Product ID	Formula	Particle Size
420500PD001	Mo ₂ B (99%)	-325 Mesh
420500PDDZ	Mo ₂ B (99%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal Impurities (ppm)					
	Fe	Ni	Si	Sn	Cr	Al
99%	≤ 1000	≤ 200	≤ 500	≤ 200	≤ 200	≤ 200

Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.

3. Packaging

Bottles/bags with double vacuum packaging.
Custom packaging is also available upon request.

4. Period of Validity

It is recommended to use this product within 12 months. If it is overdue, the product quality status should be re-evaluated.

5. Handling and Storage

Handle in a well-ventilated area, minimize dust generation, and wear appropriate personal protective equipment during handling.

Store in a tightly sealed container in a cool, dry, well-ventilated place away from moisture and incompatible materials.

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