

Technical Data Sheet

Molybdenum Sulfide Powder

Product ID: 421600PD001

Formula: Mo₆S₈

Molecular weight: 832.12 g/mol

CAS No.: /

EINECS No.: /

Color: Black

Description: It offers high structural stability, good electrical conductivity, excellent electrochemical activity, and strong cycling durability.

Application: Lithium-ion batteries, cathode materials, electrochemical energy storage, catalysis, and advanced electronic and functional materials.

**Product
Image:**



1. Sizes

Product ID	Formula	Particle Size
421600PD001	Mo ₆ S ₈ (99.9%)	-100 Mesh
421600PDDZ	Mo ₆ S ₈ (99.9%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal Impurities (ppm)					
	Co	Cu	Al	Ni	Fe	Cr
99.9%	≤ 100	≤ 50	≤ 50	≤ 50	≤ 100	≤ 50

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

Sealed moisture-proof packaging, with vacuum or inert-gas filling available upon request.

Long-term direct packaging in ordinary PE self-sealing bags is prohibited: oxygen and moisture will slowly permeate, causing material deterioration.

4. Period of Validity

It is recommended to use this product within 12 months when stored in the original sealed packaging under recommended storage conditions. If it is overdue, the product quality status should be re-evaluated.

5. Handling and Storage

Mo_6S_8 is a metastable phase at room temperature, sensitive to moisture and oxygen. Exposure to air easily leads to surface oxidation, forming molybdenum oxide/sulfate, and causing a decline in electrochemical performance. It is recommended to open and use it in an argon-filled glove box; minimize exposure time to air.

Store in a cool, dry place, sealed and protected from light; avoid moisture.

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