

Technical Data Sheet

Molybdenum(IV) Oxide Powder

Product ID: 420800PD001 - 420800PD005

Formular: MoO₂

Molecular weight: 127.94 g/mol

CAS No.: 18868-43-4

EINECS No.: 242-637-9

Color: Blue black

Description: Our molybdenum dioxide is available in 99.5% and 99.9% purity grades and can be supplied in both nanopowder and micropowder forms, with particle sizes customizable according to customer requirements, while offering high electrical conductivity, excellent chemical stability, and outstanding catalytic activity.

Application: Lithium-ion batteries, electrocatalysis, sensors, electronic components, advanced ceramic materials, etc.

**Product
Image:**



1. Sizes

Product ID	Formular	Particle Size
420800PD001	MoO ₂ (99.5%)	< 200nm
420800PD002	MoO ₂ (99.9%)	-200 Mesh
420800PD003	MoO ₂ (99.9%)	-325 Mesh
420800PD004	MoO ₂ (99.9%)	D50< 5µm
420800PD005	MoO ₂ (99.9%)	D50< 10µm
420800PD2N5DZ	MoO ₂ (99.5%)	Customized
420800PD3NDZ	MoO ₂ (99.9%)	Customized

2. Chemical compositions

		Metal Impurities (ppm)				
Element Typical Value Purity	Al	Fe	Si	Zn	K	Ca
	99.5%	≤ 300	≤ 300	≤ 300	≤ 100	≤ 300
99.9%	≤ 100	≤ 100	≤ 100	≤ 50	≤ 200	≤ 100

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.

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

When using, wear a dust mask and goggles to avoid inhalation of dust, and operate in a well-ventilated area.

Store in a cool, dry, and tightly sealed container away from moisture and strong oxidizing agents.

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