

MOLYBDENUM POWDER PRODUCTS

MOLYBDENUM METAL POWDER

Mo (99.95 %)

CHEMICAL FORMULA

Mo

CHEMICAL NAME

Molybdenum Metal Powder

DESCRIPTION OF PRODUCT

Grey metal powder. Sieved

TYPICAL APPLICATIONS

The production of pressed and sintered Mo or Mo alloy parts. Also used to produce blended alloy powders.

GRADES AVAILABLE

Product Designation Molybdenum Metal Powder
3.5 – 4.5 μm (MoMP 3.5 – 4.5 μm) Molybdenum
Metal Powder 4.5 – 5.5 μm (MoMP 4.5 – 5.5 μm)

CHEMICAL CHARACTERISTICS¹

(Mass fraction in % [cg/g]; ppm [$\mu\text{g/g}$])

The chemical composition of the molybdenum blended powder used for manufacturing the wrought bar shall conform to the following limits:

| Mo (excluding gases) | Limit min. 99.95% | | |
|-------------------------|----------------------|---------|--------------|
| Cr | max. | 0.005 % | (50 ppm) |
| Fe | max. | 0.005 % | (50 ppm) |
| K | max. | 0.006 % | (60 ppm) |
| Mg | max. | 0.001 % | (10 ppm) |
| Ni | max. | 0.002 % | (20 ppm) |
| Si | max. | 0.003 % | (30 ppm) |
| Sn | max. | 0.003 % | (30 ppm) |
| O | max. | 0.100 % | (1000 ppm) |

PHYSICAL CHARACTERISTICS

| | MoMP 3.5-4.5 μm | MoMP 4.5-5.5 μm |
|--|----------------------------|----------------------------|
| Fisher Number (as supplied) | 3.5 – 4.5 μm | 4.5 – 5.5 μm |
| Screening Fraction ²⁾ >63 μm (-230 mesh) | max. 0.5% | max. 0.5% |

Other screening fractions are available upon request.

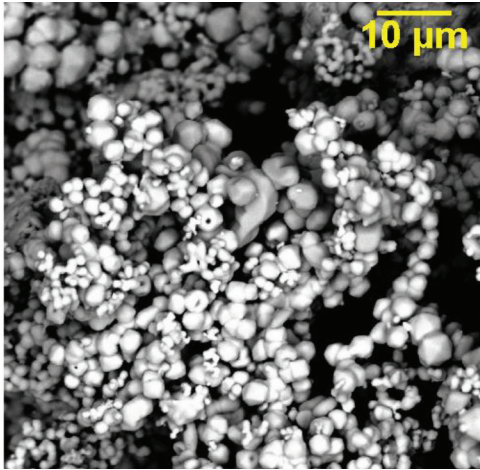
150 μm (-100 mesh)

75 μm (-200 mesh)

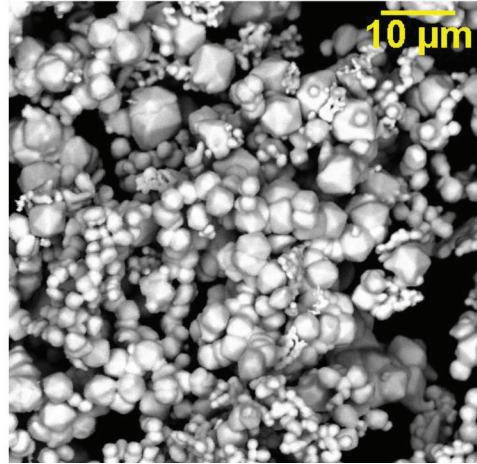
Please contact your sales representative or the HCST Coldwater MI USA facility to learn more.

GRADES AVAILABLE

| Product Designation | Screening Fraction | Product Number |
|------------------------------|-------------------------------|----------------|
| MoMP 3.5 - 4.5 μm | -63 μm (-230 mesh) | 01046614 |
| MoMP 4.5 - 5.5 μm | -63 μm (-230 mesh) | 01046615 |



Typical structure of MoMP 3.5 - 4.5 μm



Typical structure of MoMP 4.5 - 5.5 μm

PACKAGING

The molybdenum powder is shipped in non-returnable polyethylene-lined 20 liter (5 gallon) plastic pails or 60 liter (16 gallon) steel drums. Special packaging inquiries are welcome.

STORAGE AND HANDLING

Storage and handling are subject to the rules and regulations in the country of use.

Hazards identification in Advertising (Directive 67/548/EEC Article 26, Directive 1999/45/EC Article 13 and REGULATION (EC) No 1272/2008 Article 48) none.

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