

## ELMET TECHNOLOGIES

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 $\mu \mathrm{m}$ (MoMP 3.5-4.5 $\mu \mathrm{m}$ ) Molybdenum Metal Powder 4.5-5.5 $\mu \mathrm{m}$ (MoMP 4.5-5.5 $\mu \mathrm{m}$ )

## CHEMICAL CHARACTERISTICS ${ }^{1}$

(Mass fraction in \% [cg/g]; ppm [ $\mu \mathrm{g} / \mathrm{g}]$ )
The chemical composition of the molybdenum blended powder used for manufacturing the wrought bar shall conform to the following limits:

| Mo <br> (excluding gases) | Limit <br> min. 99.95\% |  |  |
| :---: | :---: | :---: | :---: |
| Cr | max. | $0.005 \%$ | $(50 \mathrm{ppm})$ |
| Fe | max. | $0.005 \%$ | $(50 \mathrm{ppm})$ |
| K | $\max$. | $0.006 \%$ | $(60 \mathrm{ppm})$ |
| Mg | $\max$. | $0.001 \%$ | $(10 \mathrm{ppm})$ |
| Ni | $\max$. | $0.002 \%$ | $(20 \mathrm{ppm})$ |
| Si | $\max$. | $0.003 \%$ | $(30 \mathrm{ppm})$ |
| Sn | $\max$. | $0.003 \%$ | $(30 \mathrm{ppm})$ |
| O |  | $0.100 \%$ | $(1000 \mathrm{ppm})$ |

## PHYSICAL CHARACTERISTICS

|  | MoMP 3.5-4.5 $\boldsymbol{\mu m}$ | MoMP 4.5-5.5 $\boldsymbol{\mu m}$ |
| :---: | :---: | :---: |
| Fisher Number (as supplied) | $3.5-4.5 \mu \mathrm{~m}$ | $4.5-5.5 \mu \mathrm{~m}$ |
| Screening Fraction $\left.^{2}\right)>63 \mu \mathrm{~m}(-230$ mesh $)$ | $\max .0 .5 \%$ | $\max .0 .5 \%$ |

Other screening fractions are available upon request.
$150 \mu \mathrm{~m}$ (-100 mesh)
$75 \mu \mathrm{~m}$ (-200 mesh)
Please contact your sales representative or the HCST Coldwater MI USA facility to learn more.

[^0]| Product Designation | Screening Fraction | Product Number |
| :---: | :---: | :---: |
| MoMP 3.5-4.5 $\mu \mathrm{m}$ | $-63 \mu \mathrm{~m}(-230$ mesh $)$ | 01046614 |
| MoMP $4.5-5.5 \mu \mathrm{~m}$ | $-63 \mu \mathrm{~m}(-230 \mathrm{mesh})$ | 01046615 |



Typical structure of MoMP 3.5-4.5 $\mu \mathrm{m}$


Typical structure of MoMP $4.5-5.5 \mu \mathrm{~m}$

## 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.

## ELMET <br> TECHNOLOGIES

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[^0]:    1) Information on testing methods on request, 2) Sieve Analysis per ASTM B 214. 1/2
