

# Technical Data Sheet

## Molybdenum nanopowder, 100 nm

Revision Date: 03/06/2009

Date Issued: 03/02/2007

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

<b>Product name</b>	Molybdenum nanopowder, 100 nm
<b>Product code</b>	NM-0010-HP
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131 - 898390
<b>Fax</b>	+49 (0)7131 - 89839109
<b>Emergency telephone</b>	+49 (0)179 - 5322578

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	Molybdenum powder
<b>Empirical Formula</b>	Mo
<b>CAS No.</b>	7439-98-7
<b>Molecular weight</b>	95.94 amu
<b>Purity</b>	99+% (metal basis)
<b>Average Particle Size</b>	100 nm, particles are agglomerated in the 1-3 $\mu$ m range.
<b>Specific Surface Area</b>	N/A
<b>Morphology</b>	Spherical
<b>Bulk Density</b>	N/A
<b>True Density</b>	10.28 g/cm <sup>3</sup>
<b>Melting point</b>	2623°C

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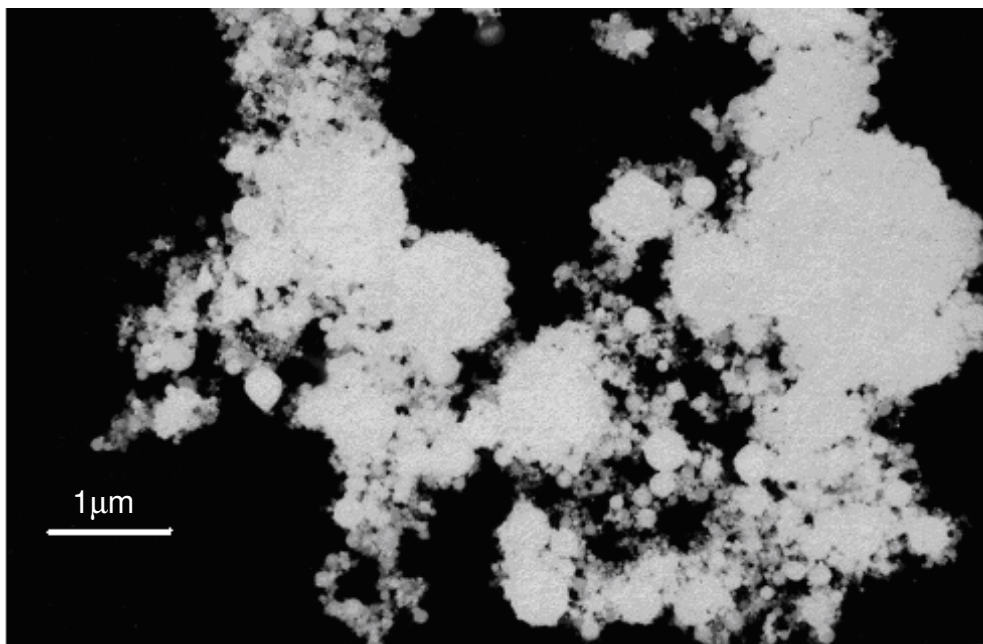
**Production method**                      electro-explosion of wire

### 3 SPECIFICATIONS

Chemical composition: Mo 99+%

Other elements (metal basis) – less than 1%

### 4 TRANSMISSION ELECTRON MICROSCOPY



### 5 X-RAY DIFFRACTION PATTERN

Not available

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### 6 ORDER INFORMATION

NM-0010-HP can be obtained in the following standard quantities:

Quantity	Price
10 g	Please enquire
50 g	Please enquire
100 g	Please enquire
500 g	Please enquire
Bulk	Please enquire

Please send your order via email to [order@nanomaterials.iolitec.de](mailto:order@nanomaterials.iolitec.de) or fax +49 (0)7131 – 89839109.

### 7 OTHER INFORMATION

**Warning!** Molybdenum is a combustible solid. See MSDS for specific details.

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