

Technical Data Sheet

Iron nanopowder, 25 nm

Revision Date: 03/06/2009

Date Issued: 03/02/2007

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

| | |
|----------------------------|---|
| Product name | Iron nanopowder, 25 nm |
| Product code | NM-0019-HP |
| Supplier | IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany |
| Telephone | +49 (0)7131 - 898390 |
| Emergency telephone | +49 (0)179 - 5322578 |

2 COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|------------------------------|---|
| Ingredient name | Iron powder, partially passivated [O] ~ 10 wt.% |
| Empirical formula | Fe |
| CAS No. | 7439-89-6 |
| Molecular weight | 55.85 amu |
| Purity | 99.5 wt.% (metal basis) |
| Average particle size | 25 nm (TEM) |
| Particle size range | 0-60 nm (TEM) |
| Specific Surface area | 40 to 60 m ² /g (BET) |
| Colour | Black |
| Morphology | spherical |
| Bulk density | 0.10-0.25 g/cm ³ |
| True density | 7.87 g/cm ³ |

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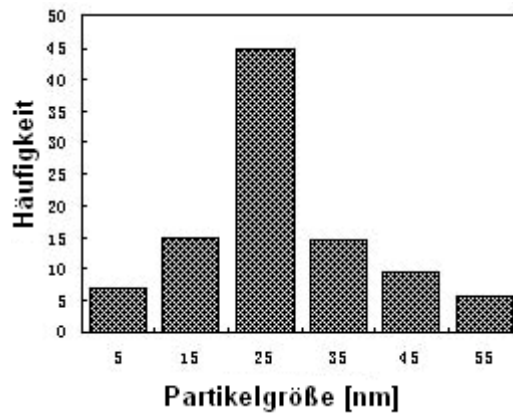
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Melting point 1535 °C
Production method Laser evaporation process

3 SPECIFICATIONS



4 TRANSMISSION ELECTRON MICROSCOPY



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5 X-RAY DIFFRACTION PATTERN

Not available

6 ORDER INFORMATION

NM-0019-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 or fax +49 (0)7131 – 89839109.

7 OTHER INFORMATION

WARNING! Iron nanopowder is a combustible solid. Do not use water as a fire extinguisher. See MSDS for specific details.

DISCLAIMER

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