

Technical Data Sheet

Iron powder

Revision Date: 4/1/2026

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

| | |
|----------------------------|---|
| Product name | Iron powder |
| Product code | NM-0019-UP |
| Supplier | IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany |
| Telephone | +49 (0)7131 – 898390 |
| Fax | +49 (0)7131 - 89839109 |
| Emergency telephone | +49 (0)151-41255671 |

2 COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|------------------------------|--|
| Ingredient name | Iron powder, partially passivated [O] ~ 9 wt.%, no effect on major performance, Valence is a zero-valent |
| Empirical formula | Fe |
| CAS No. | 7439-89-6 |
| Molecular weight | 55.85 g/mol |
| Purity | 99.5 wt.% (metal basis) |
| Average particle size | 25 nm (TEM) (D90=50nm) |
| Particle size range | 0-60 nm (TEM) |
| Specific Surface area | 40 to 60 m ² /g (BET) |
| Color | Black |
| Morphology | spherical |
| Bulk density | 0.10-0.25 g/cm ³ |
| True density | 7.87 g/cm ³ |

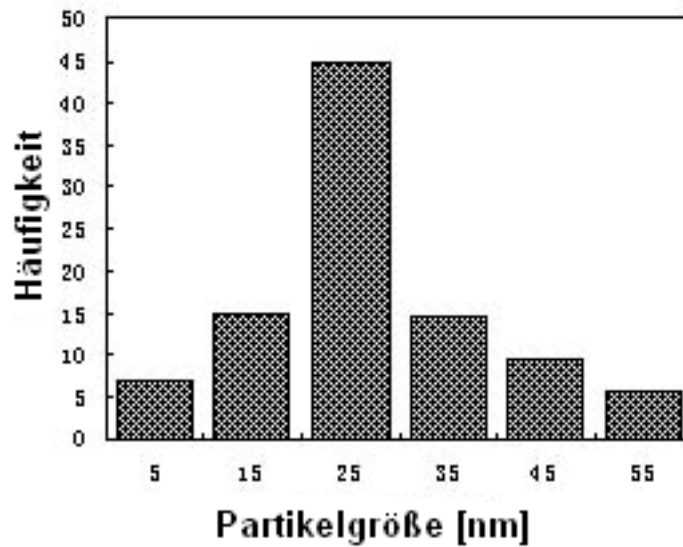
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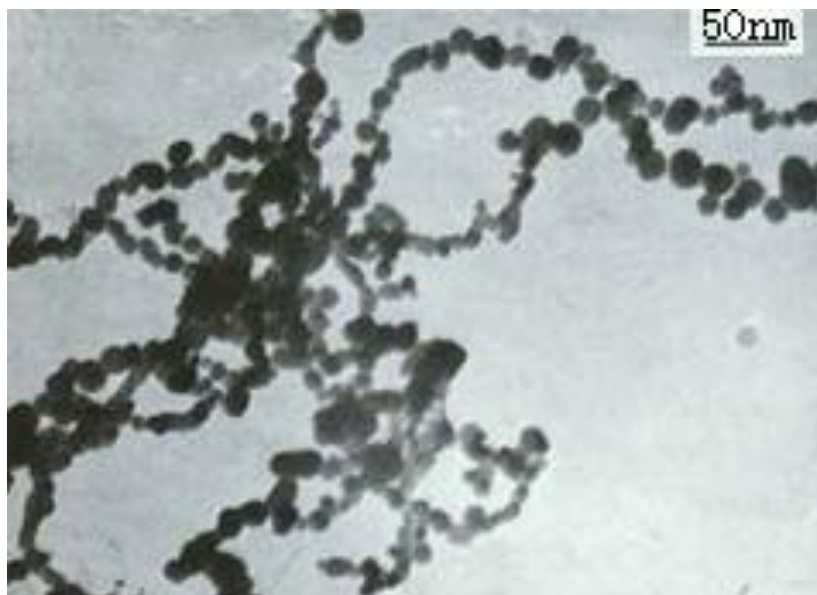
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| | |
|--------------------------|---------------------------|
| Melting point | 1535°C |
| Production method | Laser evaporation process |

3 SPECIFICATIONS



4 TRANSMISSION ELECTRON MICROSCOPY



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5 OTHER INFORMATION

WARNING!

Iron nanopowder is a combustible solid. See MSDS for specific details.

DISCLAIMER

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