

Technical Data Sheet

Iron powder

Revision Date: 8/18/2025

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
Emergency telephone	+49 (0)176 - 84850874

2 COMPOSITION / INFORMATION ON INGREDIENTS

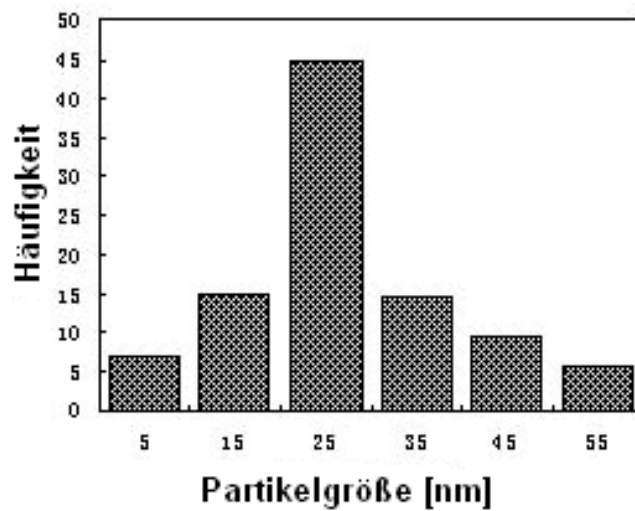
Ingredient name	Iron powder, partially passivated [O] ~ 10 wt. %
Empirical formula	Fe
CAS No.	7439-89-6
Molecular weight	55.85 g/mol
Purity	99.9 wt. % (metal basis)
Average particle size	25 nm (TEM) (D90=50nm)
Particle size range	0-60 nm (TEM)
Specific Surface area	40 to 60 m ² /g (BET)
Colour	Black
Morphology	spherical
Bulk density	0.10-0.25 g/cm ³
True density	7.87 g/cm ³
Melting point	1535°C
Production method	Laser evaporation process

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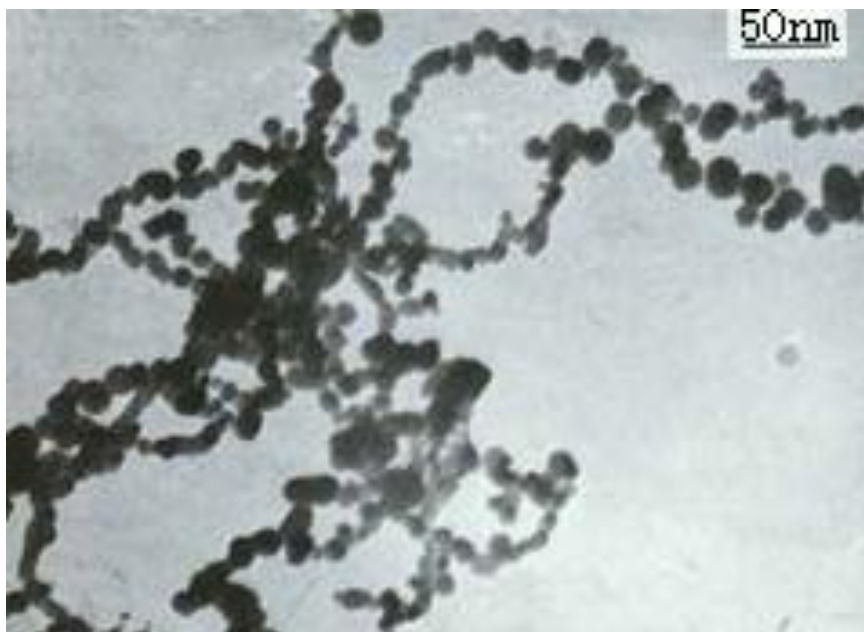
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3 SPECIFICATIONS



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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