

Technical Data Sheet

Iron powder

Revision Date: 05/08/2024

Date Issued: 05/08/2024

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

Product name	Iron powder
Product code	NM-0029-UP
CAS	7439-89-6
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
CAS No.	7439-89-6
Empirical Formula	Fe
Molecular weight	55.85 g/mol
Purity	99.7%
O content	~ 5.0%
Morphology	spherical
Average Particle Size	60-80 nm (TEM)
Specific Surface Area	7 m ² /g (BET)
Relative Density	7.87 g/cm ³

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Bulk Density 0.5 g/cm³

Melting point 1535°C

3 CONTENT OF IMPURITIES

Impurity	Content
Cu	400 ppm
Ni	300 ppm
Al	200 ppm
Ca	50 ppm
Cr	50 ppm
Mo	50 ppm
Ti	50 ppm
Si	30 ppm
Sn	30 ppm
Pb	20 ppm
Mg	10 ppm
Mn	10 ppm

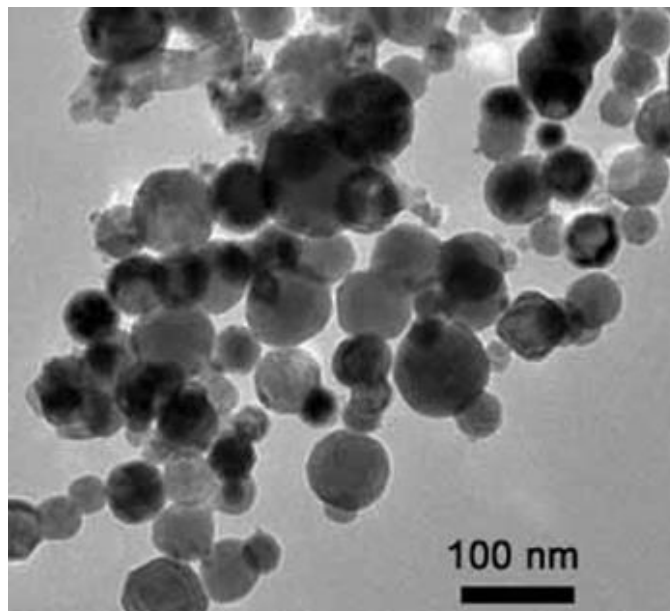
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4 TEM IMAGE



5 OTHER INFORMATION

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