

Technical Data Sheet

Silicon powder

Date Issued: 2026-04-02

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

Product name	Silicon powder
Product code	NM-0020-HP
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

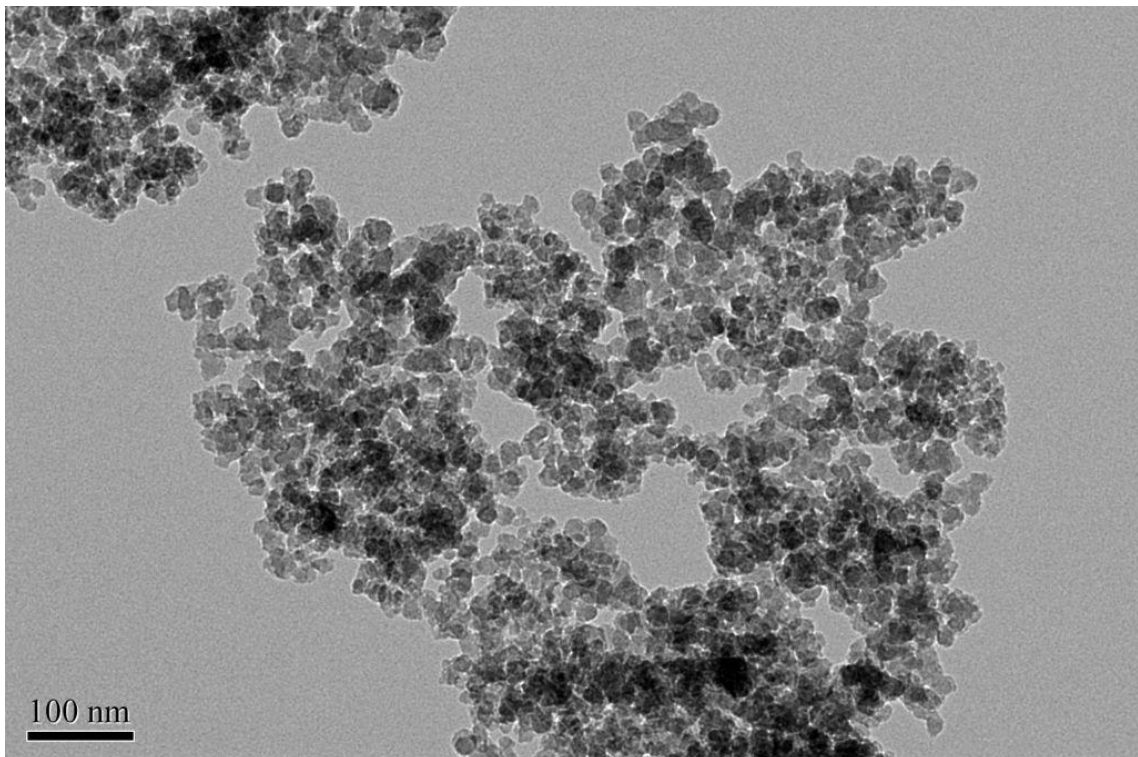
Ingredient name	Silicon powder
Empirical formula	Si
CAS No.	7440-21-3
Molecular weight	28.09 g/mol
Purity	99+%
Average particle size	< 100 nm
Specific surface area	> 80 m ² /g
Color	brown yellow
Morphology	spherical
Bulk density	0.08 g/cm ³
True density	2.33 g/cm ³
Melting point	1410°C
Production method	CVD

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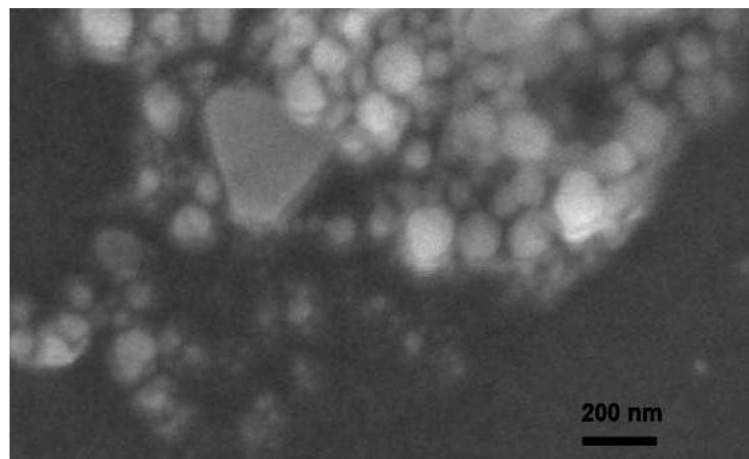
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3 TEM IMAGE



4 SEM IMAGE



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5 TYPICAL IMPURITIES

Mg	< 0.001 %	In	< 0.0001 %	Cu	< 0.55 %
P	< 0.001 %	Pb	0.0001 %	Sb	< 0.0001 %
Mn	< 0.0001 %	B	0.0005 %	C	< 0.15%
Co	< 0.0001 %	Al	< 0.05 %	Ni	0.0003 %
Zn	0.0004 %	Ca	< 0.002 %	Si	>99%
As	0.0003 %	Cr	< 0.002 %		
Cd	< 0.0001 %	Fe	< 0.015 %		

6 OTHER INFORMATION

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