

# Technical Data Sheet

## Silicon powder

Date Issued: 2019-08-14

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

<b>Product name</b>	Silicon powder
<b>Product code</b>	NM-0020-HP
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131 - 898390
<b>Fax</b>	+49 (0)7131 - 89839109
<b>Emergency telephone</b>	+49 (0)176 - 84850874

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

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

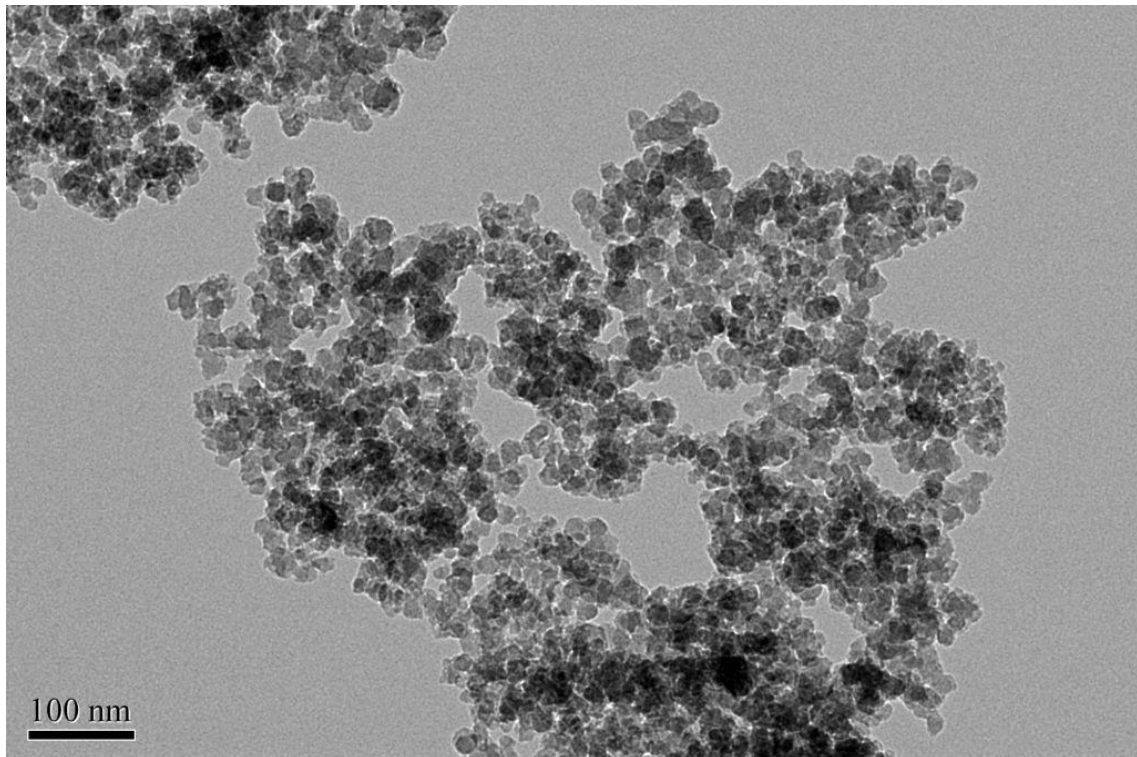
# Technical Data Sheet

## Silicon powder

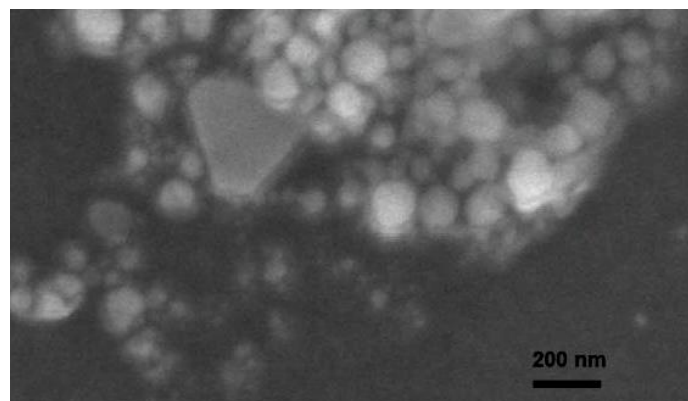
Date Issued: 2019-08-14

---

### 3 TEM IMAGE



### 4 SEM IMAGE



# Technical Data Sheet

## Silicon powder

Date Issued: 2019-08-14

---

### 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

#### DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.