

Technical Data Sheet

Silicon nitride

Date Issued: 2019-08-14

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

Product name	Silicon nitride
Product code	NC-0009-HP
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Emergency telephone	+49 (0)176 - 84850874

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Silicon(IV)nitride
Empirical Formula	Si ₃ N ₄
CAS No.	12033-89-5
Molecular weight	140.28 amu
Purity	99 %
Average particle size	15-20 nm
Specific Surface Area	103-123 m ² /g
Crystall phase	amorphous (+ trace beta SiC)
Color	white or yellow
Morphology	spherical
Bulk Density	0.046 g/cm ³
True Density	3.4 g/cm ³
Melting point	1900 °C

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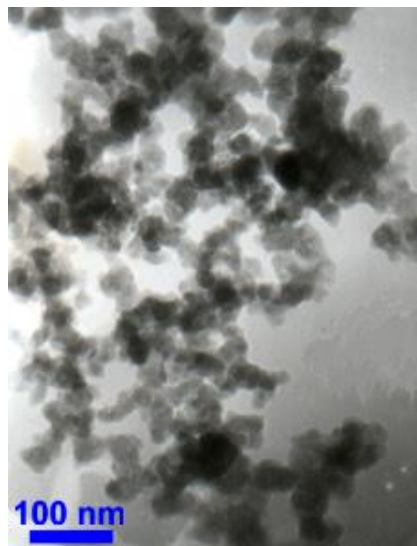
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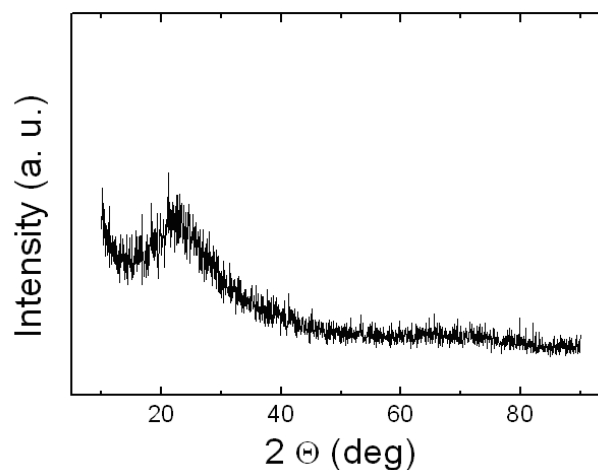
3 SPECIFICATIONS

Impurities	Contents (%)
Free Si	< 0.3
Cl	< 0.25
O	< 1.25

4 TRANSMISSION ELECTRON MICROSCOPY



5 X-RAY DIFFRACTION PATTERN



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6 OTHER INFORMATION

DISCLAIMER

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