

Technical Data Sheet

Silicon(IV)nitride nanopowder, 15-30 nm

Revision Date: 2009-08-19

Date Issued: 2007-05-01

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

Product name	Silicon(IV)nitride powder, 15-30 nm
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)179 - 5322578

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Silicon(IV)nitride powder
Empirical Formula	Si ₃ N ₄
CAS No.	12033-89-5
Molecular weight	140.28 amu
Purity	98.5+ %
Average particle size	15-30 nm
Particle size range	nm
Specific Surface Area	103-123 m ² /g
Colour	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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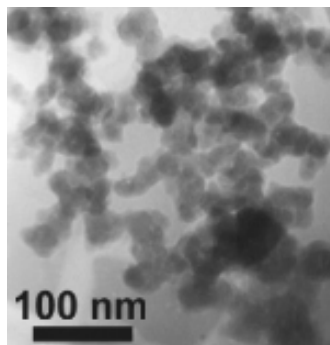
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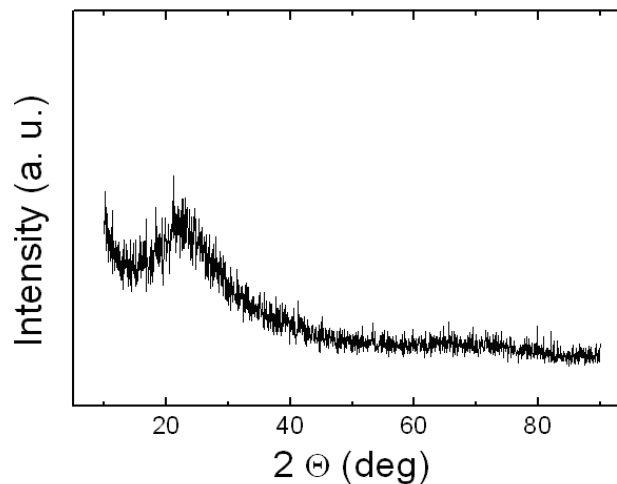
3 SPECIFICATIONS

Components	Contents (%)
B ₂ O ₃	0.13
CaO	0.003
Fe ₂ O ₃	0.04
MgO	0.04

4 TRANSMISSION ELECTRON MICROSCOPY



5 X-RAY DIFFRACTION PATTERN



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6 ORDER INFORMATION

NC-0009-HP can be obtained in the following standard quantities:

Quantity	Price
10 g	Please enquire
25 g	Please enquire
50 g	Please enquire
100 g	Please enquire
500 g	Please enquire
Bulk	Please enquire

Please send your order via email to order@nanomaterials.iolitec.de or fax +49 (0)7131 – 89839109.

7 OTHER INFORMATION

DISCLAIMER

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