

Technical Data Sheet

Silicon nitride powder, amorphous

Revision Date: 8/18/2025

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

Product name	Silicon nitride powder, amorphous
Product code	NC-0003-HP
CAS	12033-89-5
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 nitride
CAS No.	12033-89-5
Empirical Formula	Si ₃ N ₄
Molecular weight	140.28 g/mol
Purity	99%
Oxygen Content	< 0.5%
Average Particle Size	20 nm
Specific Surface Area	> 110 m ² /g
Relative Density	3.40 g/cm ³
Bulk Density	0.06 g/cm ³

Technical Data Sheet

Silicon nitride powder, amorphous

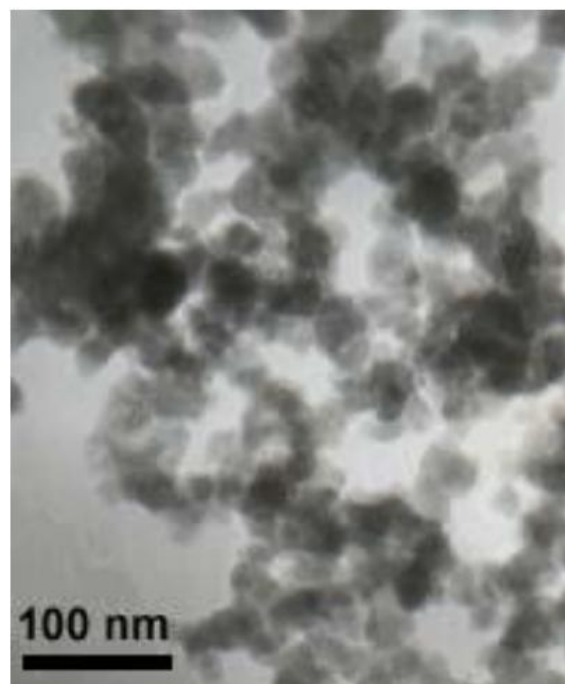
Revision Date: 8/18/2025

Melting point 1900°C

3 CONTENT OF IMPURITIES

Impurity	Content
Si _f	≤ 0.25%
Cl	≤ 0.25%
O	≤ 0.5%

4 TEM IMAGE



Technical Data Sheet

Silicon nitride powder, amorphous

Revision Date: 8/18/2025

5 OTHER INFORMATION

DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOPOSED 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 USERE'S RESPONISIBILTY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.