

Technical Data Sheet

Boron carbide

Revision Date: 8/18/2025

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

Product name	Boron carbide powder
Product code	NC-0015-HP
CAS	12069-32-8
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	Boron carbide
CAS No.	12069-32-8
Empirical Formula	B ₄ C
Molecular weight	55.25 g/mol
Purity	99%
Average Particle Size	< 50 nm
Relative Density	2.52 g/cm ³
Melting point	2350°C
Boiling point	> 2500°C

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3 CONTENT OF IMPURITIES

Impurity	Content
T. C	19.3%
T. B	80.2%
O	≤ 0.12%
B ₂ O ₃	≤ 0.3%
Al	≤ 0.0007%
Ca	≤ 0.0006%
Mg	≤ 0.0002%
Fe	≤ 0.0003%
Na	≤ 0.0003%

4 OTHER INFORMATION

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