

# Technical Data Sheet

## Boron carbide powder

Date Issued: 2017-04-08

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

<b>Product name</b>	Boron carbide powder
<b>Product code</b>	NC-0015-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)179 – 5322578

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

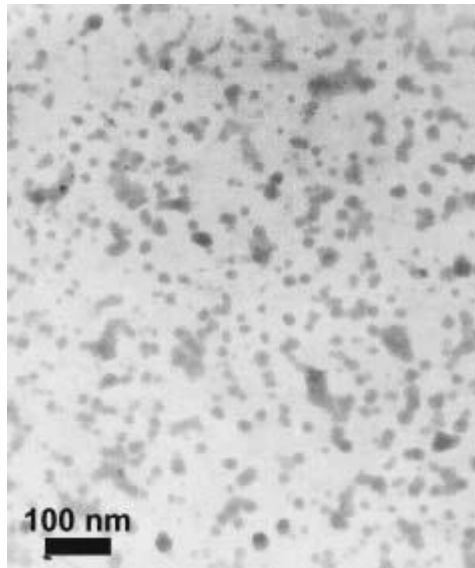
<b>Ingredient name</b>	Boron Carbide
<b>CAS No.</b>	12069-32-8
<b>Empirical Formula</b>	B <sub>4</sub> C
<b>Molecular weight</b>	55.25 amu
<b>Purity</b>	+99.0 %
<b>Average Particle Size</b>	< 50nm
<b>Specific Surface Area (BET)</b>	~ 75 m <sup>2</sup> /g
<b>Morphology</b>	Monocrystalline
<b>Color</b>	gray-black
<b>True Density</b>	2.51 g/cm <sup>3</sup>
<b>Melting Point</b>	2350°C
<b>Boiling Point</b>	>2500 °C

# Technical Data Sheet

## Boron carbide powder

Date Issued: 2017-04-08

### 3 TRANSMISSIONS ELECTRON MICROSCOPY



### 4 SPECIFICATIONS

Product name	Boron Carbide Nanopowder
Purity	+99.9%
Total Boron	78.21%
Free Boron	0.15%
B <sub>2</sub> O <sub>3</sub>	0.13%
Total Carbon	20.91%
Free Carbon	1.78%
Iron	0.10%
Silicon	0.09%

# Technical Data Sheet

## Boron carbide powder

Date Issued: 2017-04-08

---

### 5 DISCLAIMER

#### 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.

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.