



Boron amorphous

Reliable element for pyrotechnic applications

Our high-quality amorphous boron is the ideal choice for demanding pyrotechnic applications in airbag ignition systems. Thanks to its high energy content, excellent reactivity, and consistent quality, it contributes to the fast and reliable activation of gas generators.

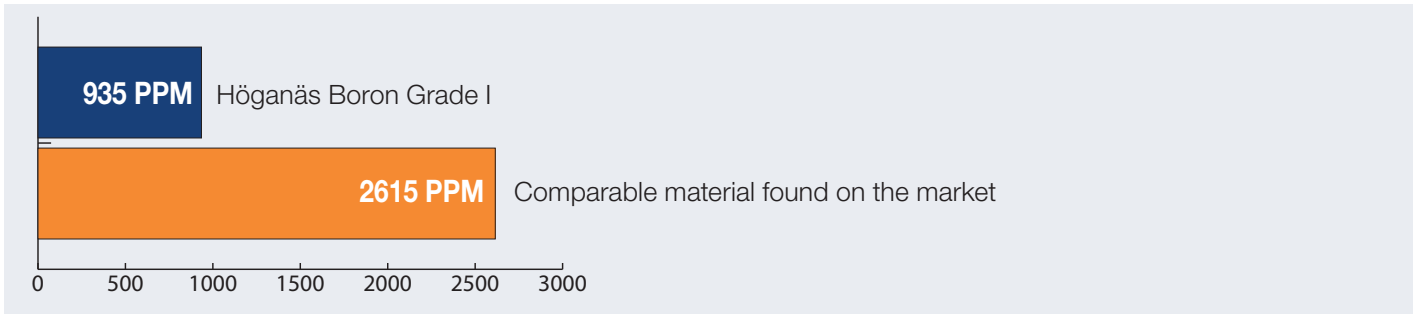
Amorphous boron is widely valued in safety-critical applications where precision, repeatability, and reliability are essential. With our set of products, you gain access to a high-performance material suitable for modern airbag technologies and specialized pyrotechnical applications.

Advantages:

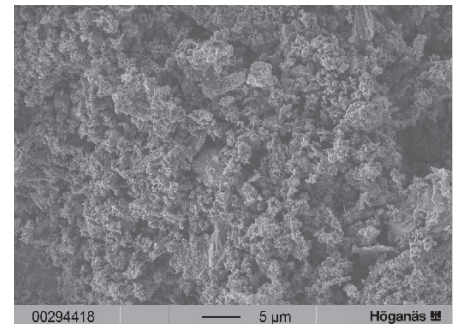
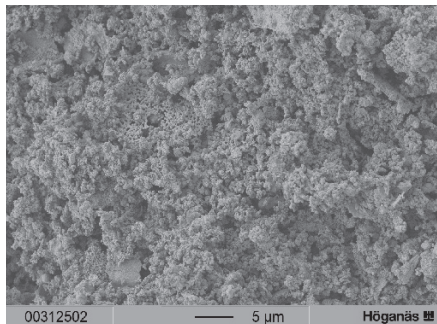
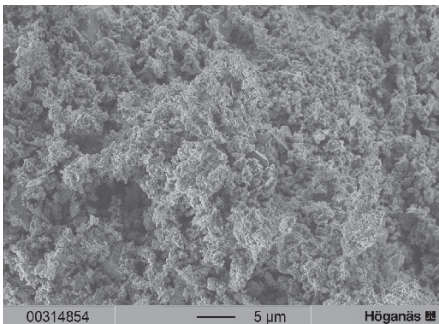
- » **Hi purity:** The low content of metallic impurities and nitrogen ensures a consistent burning rate in pyrotechnical applications.
- » **Lot-to-lot consistency:** Long track records with high lot-to-lot consistency guarantee reliable quality of the final product. The lot size is adjusted for the needs of serial production, facilitates internal logistics and quality control processes.
- » **Controllable reactivity:** Optimized chemical and physical properties of each grade support demanding applications.

Typical values		Grade I	Grade II	Grade III
B	%	> 96.5	> 91.5	> 87.0
O	%	< 1.8	< 4.0	< 1.2
N	%	< 0.1	< 0.1	< 0.1
H₂O	%	< 0.3	< 0.3	< 0.3
B H₂O sol	%	< 0.1	< 0.5	< 0.2
Mg	%	< 0.5	< 5.0	< 12.0
C	%	< 0.3	< 0.3	< 0.3
Si	ppm	< 500	< 500	< 500
Mn	ppm	< 200	< 300	< 300
Ca	ppm	< 50	< 100	< 50
Cu	ppm	< 10	< 10	< 10
Ti	ppm	< 10	< 50	< 20
W	ppm	< 20	< 20	< 20
Ni	ppm	< 30	< 30	< 30
SSA	m ² /g	> 13	> 20	> 7
PSD	d90 µm	3.9	7.5	14.4
	d50 µm	1.3	2.1	3.4
	d10 µm	0.3	0.5	0.9

Typical level of impurities



Typical Powder Morphology (Representative SEM image: Boron Amorphous Grade I, II & III)



For more information on Höganäs' Advanced ceramic powders and other products, please contact your local sales representative or scan/click the QR code to fill out a contact form.



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