

Global and United States High-purity Amorphous Boron Market Research by Company, Type & Application 2013-2025

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Abstracts

SUMMARY

Boron can be prepared in several crystalline and amorphous forms. Well known crystalline forms are α -rhombohedral, β -rhombohedral, and γ -tetragonal. In special circumstances, boron can also be synthesized in the form of its δ -tetragonal, and ϵ -orthorhombic allotropes. Two amorphous forms, one a finely divided powder and the other a glassy solid, are also known. Although at least 14 more allotropes have been reported, these other forms are based on tenuous evidence or have not been experimentally confirmed, or are thought to represent mixed allotropes, or boron frameworks stabilized by impurities. Whereas the α -rhombohedral phase is the most stable and the others are metastable, the transformation rate is negligible at room temperature, and thus all five phases can exist at ambient conditions. Amorphous powder boron and polycrystalline rhombohedral β -boron are the most common forms. The latter allotrope is a very hard [n 1] grey material, about ten percent lighter than aluminium and with a melting point (2080 °C) several hundred degrees higher than that of steel.

Market Segment as follows:

By Type

92%-95%

95%-99%

>99%

Others

By Application

Industrial field

Aerospace and the military field.

Others

By Company

SB Boron

H.C. Starck GmbH

SkySpring Nanomaterials, Inc.

CRS Chemicals

Baoding Zhongpuruituo Technology

New Metals and Chemicals Ltd.

Yingkou Tanyun Chemical Research Institute Corporation

Noah Technologies Corporation

YingKou Liaobin Fine Chemicals

Dandong Chemical Engineering Institute (DCEI)

Liaoning Pengda Technology

Tangshan Weihao Magnesium Powder

The main contents of the report including:

Section 1:

Product definition, type and application, global and United States market overview;

Section 2:

Global and United States Market competition by company;

Section 3:

Global and United States sales revenue, volume and price by type;

Section 4:

Global and United States sales revenue, volume and price by application;

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United States export and import;

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Company information, business overview, sales data and product specifications;

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