



# Boron amorphous type II, 90/92 %

**Article number** 45 8046

**CAS-No.** 7440-42-8

**Typical** Formula: B  
**Properties** Form and Color: Fine light brown powder

**Applications** For use in airbags for passenger vehicles, solid fuels and slurries, ceramic formulations, explosives and rocket propellants. Boron is a strong neutron absorber and sometimes used for preparation of absorber materials. Boron is also used for applications within refractory, welding, brazing, pyrotechnics and nanotechnology industry.

**Characteristics** Amorphous boron is a fine grey to brownish powder which oxidizes slowly at room temperature. Therefore it should be kept in completely filled air-tight containers. If mixed with oxidizing materials, it may be sensitive to heat and impact.

**Typical** Typical Chemical Analysis:  
**Appearance**

Boron		90 – 92 %
Mg	max.	5.0 %
Fe		0.1 %
N		0.1 %
Mn		0.08 %
Ca, Si, Na		0.04 %
Al, Pb, Ni		0.01 %
Ba, Bi, Cd, Cu		0.005 %
Water soluble boron		0.5 %
Insoluble in H <sub>2</sub> O <sub>2</sub>	max.	1.0 %
Moisture content	max.	0.5 %

Typical Physical Characteristics:

FSSS Particle size	max.	1.0 µm
--------------------	------	--------

---

# Boron amorphous type II, 90/92 %

<b>Handling</b>	The user must comply with all relevant safety regulations in force in the country of use. Store in a closed container. <b>See our safety data sheet!</b>
<b>Packaging</b>	Standard packaging includes plastic liner in airtight sealed fiber containers of 25-50 kg.
<b>Transport classification</b>	Boron amorphous is not a dangerous material according to transport regulations.