



# Boron amorphous type III, 86/88 %

**Article number** 45 8047

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

**Typical** Formula: B  
**Properties** Form and Color: Fine black/dark 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 welding, brazing, refractory and nanotechnology applications.

**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 total	min.	86.0 %
Mg	max.	8.0 %
Water soluble boron	max.	1.5 %
Insoluble in H <sub>2</sub> O <sub>2</sub>	max.	1.5 %
Moisture content	max.	0.5 %

Typical Physical Characteristics:

FSSS Particle size	max.	1.0 µm
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**Handling** The user must comply with all relevant safety regulations in force in the country of use. Store in a closed container.

**See our safety data sheet!**

**Packaging** Standard packaging includes plastic liner in airtight sealed fiber containers of 25-50 kg.

**Transport classification** Boron amorphous is not a dangerous material according to transport regulations.