



20.8% B



Disodium tetraborate

Grades: 12-mesh, 30-mesh, and fine

CAS Number 1330-43-4

Boron for fertilizer manufacturing

Anhybor[®] is specially designed for fertilizer manufacturing, making it easy to include boron, an essential micronutrient in your fertilizer product. *Anhybor* is a product resulting from the dehydration and fusion of borax.

Depending on the grade, *Anhybor* can be used in the following applications:

- Micronutrient coating: *Anhybor* is designed to coat granular and compacted fertilizers, such as NPK fertilizers, with the aid of a binder system. *Anhybor* gives flexibility on the micronutrient rate and assures an even distribution in the field.
- Compound fertilizer: *Anhybor* can be used as a raw material to produce compound or fortified fertilizers
- Direct soil application: Depending upon the cropping system, *Anhybor* can be soil applied via fertilizer mixture

12-mesh and 30-mesh grades

These *Anhybor* grades are specifically created so fertilizer manufacturers can add boron to their products before granulation or compaction. *Anhybor* is ideal for this application due to not having structural water, which gives a better finish product. Additionally, its high boron content allows less material to be used while keeping the targeted boron content.

Fine grade

For those seeking to coat/impregnate NPK fertilizers with boron, *Anhybor* Fine is the ideal product due to its small particle size and good coatability property. This type of application gives fertilizer manufacture or retailers

flexibility to adjust boron rate based on the cropping system.

**U.S. Borax recommends the use of a binder material during the coating process.*

Solubility

100% water-soluble but with a gradual release rate

Boron concentration or content

Anhybor is a high purity product with the quality consistency that is synonymous with U.S. Borax products. It is one of the highest boron content fertilizer materials in the market.

Material required for 1 lb (0.45 kg) of B 4.81 lb (2.18 kg)

Ease of mixing

Anhybor does not rehydrate under ordinary storage conditions, and can be handled in bulk.

Bulk density

67 lb/ft³ (1,074 kg/m³)



Boron, an essential plant nutrient

Boron is one of eight micronutrients essential to all plant growth. Adequate boron is necessary for proper absorption of macronutrients and for maintaining the integrity of plant cell walls.

Detecting boron deficiency

Different crops show different signs of boron deficiency. Generally, but the time symptoms are seen, yields will already have been adversely affected. The best way to establish boron need is either through soil testing or tissue analysis. In this way, boron supplementation can form part of a regular crop fertilization program.

Predicting boron deficiency

Certain crops are known to be more susceptible to boron deficiency than others. Specific crop information can be found at www.borax.com/ag.

There are several factors which need to be taken into account when boron deficiency may be suspected:

- Heavy rainfall
- Sandy soils
- High organic matter
- Recent liming (pH over 6.6)
- Previous cropping
- Boron removal by previous crops
- No boron nutrition

Correcting boron deficiency

Boron deficiency can be remedied by the correct application of a borate containing material in solid or liquid fertilizers, to the seedbed in annual crops or under the foliar canopy of perennial crops. Crops can

also be sprayed with boron containing solutions. These are normally tank mixed with other micronutrients or agrochemical products. Mixing with other sprays as part of a program not only saves on application cost, but allows for precise timing.

About U.S. Borax

U.S. Borax, part of Rio Tinto, is a global leader in the supply and science of borates—naturally-occurring minerals containing boron and other elements. We are 1,000 people serving 650 customers with more than 1,800 delivery locations globally. We supply around 30% of the world's need for refined borates from our world-class mine in Boron, California, about 100 miles northeast of Los Angeles.

Our local agriculture experts understand the uses and benefits of boron on crops. In addition to a global sales team, we have a number of agronomists on staff to help fertilizer distributors maximize the benefits of borates in agriculture applications. Our ag team can answer individual growers' questions and concerns about their particular crop.

High quality, high reliability, high performance borate products. It's what we're known for.

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