



BORON X-TRA

CHELATED WITH AMINO ACIDS

AN ENHANCED BORON NUTRIENT SOLUTION

TYPICAL ANALYSIS

% W/V

BORON 5.5

Boron X-Tra is a biological stimulator solution which is blended with organic complexing agents, amino acids and fulvic acid to provide a lower pH Boron source with superior plant uptake and availability.

BORON X-TRA is:

- Effective at very low rates
- 1.3lt/ha Boron X-Tra = 1kg element Boron
- 300ml/ha Boron X-Tra = 1.1kg/ha of 20% dry soluble Boron
- 300ml/ha Boron X-Tra = 2kg/ha of a 10% Liquid Boron
- Ideal for foliar and soil application
- Highly compatible
- Economical Rates of use

KEY FACTS

- Soil pH is the most important factor affecting the absorption of B by plants[i]
- Under high soil pH conditions pH >7.5 B becomes unavailable.
- Drought stress and high light intensity may increase B deficiency
- Boron is essential for cell wall formation, stability and functionality of biological membranes.
- It is extremely important to maintain levels of Boron throughout the season especially during bud formation and flowering.
- Boron is essential for cell division and for the development and elongation of the pollen tube, as well as formation of new cells at growing points.
- Boron is extremely important in building sugar levels in plants to optimise plant health.
- Boron is used to aid the fixation of Nitrogen for plant utilisation.
- Boron assists in the root uptake of phosphorus and potassium by maintaining proper function and structure of root cell membranes.
- Boron is needed for sugar movement within the plant, improves pollination, seed development and assists with utilisation of Calcium.



CROP	RATES L/HA	CRITICAL COMMENTS
BROADACRE CROPS Cotton, Peanuts, Wheat, Barley, Sorghum, Canola etc.	0.3 TO 1.5	Apply as a foliar spray to supplement nutritional requirements of the crop. Alternatively apply to the soil at planting.
TREE CROPS	0.3 TO 1.5	
VINE CROPS	0.3 TO 1.5	
VEGETABLE CROPS	0.3 TO 1.5	

GENERAL INSTRUCTIONS

- Boron X-Tra is designed as a foliar spray for cotton, vegetables, vines, trees and other crops, which require supplemental Boron.
- Boron X-Tra has a lower pH level compared to other Boron solutions, which improves its effectiveness as a foliar application. It may also be used as a soil applied product.
- Boron X-Tra is a highly effective formulation of Boron and requires much lower use rate than other formulations. 300 mL of Boron X-Tra has been shown to be equivalent to 1.1 kg of a 20% dry soluble Boron.
- Boron X-Tra contains Boron in amounts that could be excessive for some crops. For further advice contact Growth Agriculture on Freecall 1800 440 438.

COMPATIBILITY

Boron X-Tra mixes well with most spray chemicals, but ALWAYS TEST FOR COMPATIBILITY FIRST.

APPLICATION

When applying by ground sprayers, use with a minimum of 50Lt of water per Ha.

When used in aerial application use at least 30Lt of water per Ha.

STORAGE AND DISPOSAL

Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store material that has been mixed with water – it will not keep.

Triple or preferable pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. If recycling replace cap and return containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetable and tree roots. Empty containers should not be burnt.

SAFETY DIRECTIONS

Wash hands after use. Avoid contact with skin and eyes. DO NOT SWALLOW.

FIRST AID

If poisoning occurs contact a Doctor or Poisons Information Centre (13 11 26).

[1] The importance of Boron in Plant Nutrition Seyed Ali Ghaffari Nejad and Hassan Etesami September 2019

