

BRANDT SMART B and BRANDT SMART B-MO are the newest formulations in BRANDT's top-selling BRANDT SMART SYSTEM® foliar micronutrient product line.

BRANDT "SMART nutrients" are designed for maximum nutrient mobility, performance and tank mix compatibility. These new formulations have many advantages:

- One of the most efficient and user friendly forms of boron
- Provides up to 8x more efficiency and mobility than 10% boron
- Highly soluble and stable across a broad pH range
- Boron will not precipitate when it comes in contact with acidic solutions
- Compatible with other micronutrients, including Zn and Ca
- Compatible with insecticides, herbicides and fungicides that have very specific pH ranges

Proof: Snort II'



Why Boron is Important to Crop Production

Boron is one of the most common micronutrient deficiencies. Without sufficient levels of boron many plant functions can be impaired. Low B can negatively impact vegetative and reproductive growth, cell and tissue growth and reproductive capacity.

Applying BRANDT Smart B and BRANDT Smart B-Mo during the growing season results in:

- Healthy germination and pollination resulting in improved fruit, nut and grain set
- Proper nitrogen assimilation and root nodulation formation, for improved nitrogen uptake and utilization
- Efficient carbohydrate metabolism and sugar translocation
- Better plant health and a stronger plant immune system to fight stress and disease
- Enhanced fruit and vegetable quality and yield
- Enhances cell wall stabilization, structure and integrity, which improves storage and shelf life

Guaranteed Analysis and Rates

BRANDT Smart B

5.0% B derived from boric acid		
Foliar	Soil	
Field, Row, Vegetable & Vine Crops: 0.5-1 pt/ac Fruit & Nut Tree Crops: 1-4 pts/ac Ornamentals: 1-2 pts per 100 gallons of water	All Crops: 1-3 qts/ac in a minimum of 10 gallons of water	

BRANDT Smart B-Mo

5.0% B, 0.5% Mo derived from boric acid and sodium molybdate

Foliar	Soil
Field, Row, Vegetable & Vine Crops: 0.5-1 pt/ac	All Crops: 1-3 qts/ac in a minimum of 10 gallons of water

Boron is Critical in Primary Cell Wall Formation





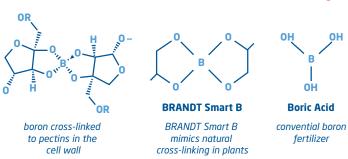


Plent Cells with **Insufficent Boron Levels**

Primary cell walls are the first cell walls to form in new growing and dividing plant cells. Boron provides structural integrity and flexibility to the primary cells walls. Insufficient boron results in the following physiological responses directly related to failures in primary cell wall formation such as:

- Structural damage in vegetative and flowering organs
- Ability for expansion to facilitate cell growth and division
- Control rate and direction of growth
- Protect against pathogens, dehydration, and environmental factors

Molecules Matter: How BRANDT Smart B and **BRANDT Smart B-Mo Are Structured for Mobility**



BRANDT's Smart Boron molecule is cross-linked, providing a protective "shield" for the boron that significantly increases foliar applied boron mobility. This allows the Smart Boron molecule(s) access to plant growing points quickly and easily, thereby providing the most benefit.

It also allows the formulations to tank mix with other crop chemicals and fertilizers, including calcium, without any compatibility issues.

In contrast, conventional boron fertilizers are not cross-linked with oxygen which results in less available boron at plant growing points.

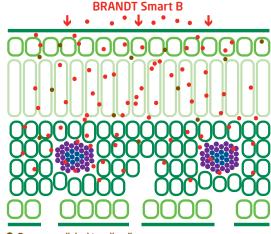
Tackling the Boron Immobility Issue

Once boron has been absorbed by the plant and incorporated into the primary cell walls structures, disassembly, reorganization and transport of the boron cannot occur resulting in its immobility.

To address this boron mobility issue, BRANDT developed BRANDT Smart B and BRANDT Smart B-Mo to specifically prevent boron from binding with pectins, ensuring that applied boron remains free and mobile for effective travel to plant growth tissues.

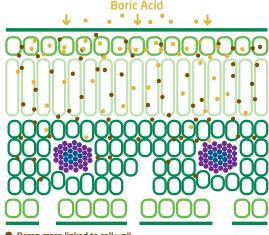
Boron Mobility on the Leaf Surface and in **Plant Tissue**

BRANDT Smart B Offers Superior Boron Mobility



Boron cross-linked to cell wall

Other Forms of Boron Get Tied up Inside the Plant



Boron cross-linked to cell wall

Proven Results

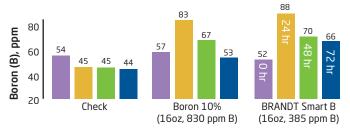
BRANDT conducted numerous studies with independent consultants to evaluate the mobility of BRANDT Smart B and other boron fertilizers.

In tissue tests, even though less boron (PPM) was applied, BRANDT Smart B was much more effective at getting higher levels of boron into plant growth tissues than conventional boron fertilizers.

BRANDT Smart B Tissue Tests

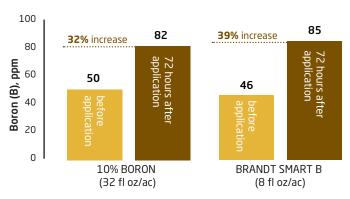
Soybean Tissue Test

Quitman, GA, 2014, 16 fl oz/ac oz, applied at pre-bloom.



Tomato Tissue Test

Hobe Sound, FL, 2015, 8 fl oz /ac, applied at pre-bloom.



BRANDT Smart B and BRANDT Smart B-Mo **Field Trials**

Corn

IL, 2014, 14 fl oz/ac at VT with fungicide application (bu/ac)

BRANDT SMART B	303	
Check	288	
IL, 2015, 16 fl oz/ac VT (bu/ac)		
BRANDT SMART B-MO	241	
Check	222	
IL, 2017, 16 fl oz/ac VT (bu/ac)		
BRANDT SMART B-MO	260	
10% Boron	257	
Chock	2//	

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Almonds

CA, 2016, 16 fl oz/ac (lb nut meat/ac)

BRANDT SMART B		2,404
Check	2,09	2
Soybean		
IL, 2014, 16 fl oz/ac at R2 (bu/ac)		
BRANDT SMART B	83	
Check	78	
GA, 2014, 16 fl oz/ac at R2 (bu/ac)		
BRANDT SMART B	54	4
10% Boron	45	
Check	45	
IL, 2017, 16 fl oz/ac at R3 (bu/ac)		
BRANDT SMART B-MO		49
Check		46
Lettuce		
		-+ (lb - /)
CA, 2016, 8 fl oz/ac applied at 4 and 2 week		, ,
BRANDT SMART B-MO	7	1,050
Check	60.722	

CA, 2016, 8 fl oz/ac applied at 4 and 2 weeks before harvest (lbs/ac)

BRANDT SMART B-MO	63,965
Check	56,404

Tomato

FL, 2015, 8 fl oz/ac at pre-bloom (lbs/ac)

BRANDT SMART B	50,266
10% Boron (32 oz/ac)	48,399
Check	40,154

Pepper

FL, 2015, 8 fl oz/ac at pre-bloom (lbs/ac)

BRANDT SMART B	31,702
10% Boron	30,777
Check	29,936

Cotton

TX, 2017, 16 fl oz/ac at match head square, early bloom and boll fill (lbs/ac - lint yield)

BRANDT SMART B-MO	909
Check	881

MS, 2017, 16 floz/ac at match head square, early bloom and boll fill (lbs/ac - seed cotton yield)

BRANDT SMART B-MO	2,419
10% Boron	2,270
Check	2 389

Watermelon

FL, 2015, 8 fl oz/ac at pre-bloon	n (lbs/ac)			
BRANDT SMART B			51,7	766
10% Boron (32 oz/ac)		39,951	L	
Check	32,760			
FL, 2016, 8 fl oz/ac at pre-bloon	n (Ibs/ac)			
BRANDT SMART B-MO				23,421
10% Boron			19,667	
Check		16,99	6	

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