



wilchem

SIGNATURE RANGE

BORON

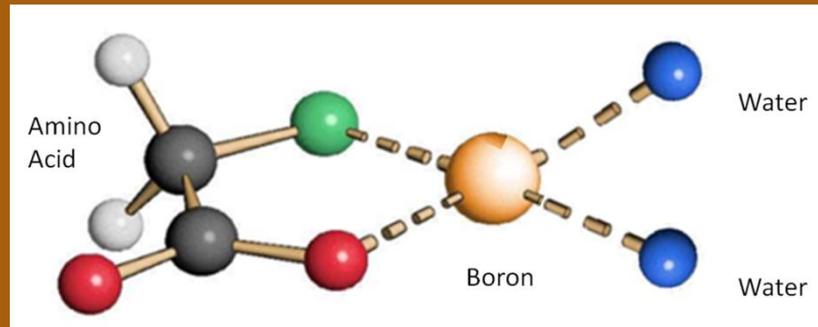
Analysis (w/v)

Boron (B) – 52 g/L
Amino Acid (AA) – 175 g/L
Nitrogen (N) – 51 g/L
pH – 7.5 to 8.5
Specific gravity (SG) – 1.21

BORON AMINO ACID CHELATE
B 52 g/L : N 51 g/L : AA 175 g/L

Signature Amino Acid Chelates

Wilchem Signature is a range of amino acid chelates. Amino acids are *bidentate chelants* – they form two bonds to the nutrient to form a “chelate ring”. The chelate ring is stronger than a single ionic bond, which protects the nutrient and maintains it in solution. Amino acid chelates increase nutrient uptake efficiency, leading to increase yield and quality.



Uses:

Wilchem Signature Boron is used to correct and prevent boron deficiency in a wide range of crops. Signature Boron can be applied via fertigation, furrow injection or foliar applications for broadacre, viticultural and horticultural production where boron deficiency may occur.

Directions for use:

Foliar sprays are the most effective way of applying Signature Boron however, it is also suitable for fertigation and furrow injection as chelates reduce reactions in

the soil solution making the nutrients more available and for a longer period.

Boron Deficiency:

Boron deficiency occurs mainly in high pH soils, that are high in aluminium, low in organic matter or in over-limed soils. High nitrogen and calcium levels can also reduce boron availability. Small seed crops, cotton, cereals, citrus, stone fruit and vegetables are particularly sensitive.

Crop	Rate L/Ha	Timing	Water L/Ha
Cereal	0.5 -1.5	Mid-late tillering	50 - 80
Beans/Peas/Lupins	1 - 2	10-14 days before flowering, earlier if known deficiency	50 - 80
Canola	1 - 2	Apply pre-flowering	50 - 80
Citrus	1 - 2	Spring flush, repeat applications may be necessary for severe deficiencies.	1000
Grapevines	1 - 1.5	Flower clusters visible and flower buds separated	200 - 800
Pasture	1 - 2	10-14 days before flowering, earlier if known deficiency	50 - 80
Lucerne	1.5	10-14 days before flowering, earlier if known deficiency	50 - 80

Deficiency Symptoms:

- Reduced flowering, seed and fruit set
- Chlorosis and death of growing points leading to multiple side shoots
- Distorted, brittle, thick or curled tissue
- Cracking or splitting of stems
- Distorted fruit

The Function:

Boron is important for cell division, protein synthesis and carbohydrate metabolism. It plays a key role in flowering and fruit set with a major influence on pollen viability. Boron has been shown to aid in the translocation of calcium throughout the plant.

Compatibility with Agricultural Chemicals:

Signature Boron is compatible with a wide range of agricultural herbicides and pesticides. Check the Compatibility Guide as a reference. Always do a small jar test before preparing a full tank mix.

Other Details:

Liquid fertilizers can be corrosive to metals so flush equipment clean after use. Avoid inhaling fumes. Avoid contact with eyes and skin. Wash thoroughly with soap and water after handling. Protect from frost. Amino acids are an organic substance and over time some slight precipitation may occur. Do not store for extended periods in direct sunlight.

Wilchem takes your crop as seriously as you do!