



# 4-4-4+3Fe BOLSTER GRANULAR®

**KNOWN WORLDWIDE FOR *SIMPLY THE BEST...*  
...NATURAL FERTILIZER & SOIL BUILDERS!**

## **4-4-4+3Fe BOLSTER GRANULAR**

### **Description:**

BOLSTER GRANULAR 4-4-4 plus iron provides a synergistic blend of ingredients that improves all turf and landscape plantings. Carefully selected supplements include a mix of arbuscular mycorrhizal inoculant species which promote greater access of plant roots to soil nutrients and water. 3% chelated iron promotes greening and rapid root development and seaweed extract, humic acid, and compost-based microorganisms act as biostimulants that enhance root growth and improve overall plant health.

### **Recommended Use:**

BOLSTER GRANULAR 4-4-4+3Fe is designed for all turfgrass and landscape plantings. Bolster G is best applied during core aeration of golf course greens and other fine turfgrass. It is also used in the soil profile during new greens construction and landscape bed preparation as well as in container mix substrates. Bolster G should be incorporated into the root zone to achieve the full benefit.

### **Professional Grade**

Sustane Natural Fertilizer is backed by over 30 years of independent applied research on diverse crops and ecosystems. Unmatched by any other organic fertilizer manufacturer, such research is the foundation for developing products that deliver value under a wide variety of growing conditions. The superior performance of Sustane's products is recognized by growers from around the world.

ONE PRODUCT  
WITH FOUR PROVEN  
COMPONENTS FOR  
CORE-AERIFICATION, SOD,  
SEED, FLOWER, SHRUB  
& TREE ESTABLISHMENT

### **Benefits of BOLSTER 4-4-4+3Fe**

- Provides quick green up followed by six to eight weeks of even color and growth.
- Increases nutrient and water holding capacity of soil.
- Strengthens plants tolerance against hot, dry conditions.
- Promotes greater root development.
- Improves buffering against changes in soil pH.
- Increases the soil's ability to suppress plant pathogens.
- Increases soil porosity and stability for greater root development and water holding capacity.

### **Features of BOLSTER 4-4-4+3Fe**

- Contains beneficial V.A. Mycorrhizae - *see below*.
- Contains BOLSTER Plant Biostimulant.
- Contains Ascophyllum nodosum seaweed.
- BOLSTER G is extremely safe and will not burn or discolor turfgrass.
- Prepares roots for drought stress.
- Reduces transplant shock.
- Helps protect roots from some pathogens and soil contaminants.

### **Vesicular Arbuscular Mycorrhizal Fungi:**

"Mycorrhizae" refers to the species of fungi that forms beneficial associations with plants. It is a "Facilitator" that brings nutrients to plant roots, exudes "Glomalin" to improve soil structure and actually fill up available entry sites along roots to inhibit pathogens from attacking. Mycorrhizal fungi are a critical component of healthy soils. It affects available soil nutrition, the physical structure of the soil and the numbers of and types of other organisms present in the soil. BOLSTER contains 3.52 propagules per gram of Sustane's proprietary blend of four different species of mycorrhizae.

## APPLICATION RATES

### BOLSTER GRANULAR FOR TURF

#### Core Aerification:

Apply 25 - 50 lb. per 1,000 ft<sup>2</sup>. (122 - 244 g per m<sup>2</sup>) after aerification. Drag fertilizer into core holes.

#### Turf Establishment:

Pre-plant: Broadcast and incorporate into top 4 in. (5 cm) of soil. 50 lb. per 1,000 ft<sup>2</sup> or 2,200 lb. per acre or 250 g per m<sup>2</sup>

Post-plant (45-60 days): Broadcast and water in 25 lb. per 1,000 ft<sup>2</sup> or 1,100 lb. per acre 125 g per m<sup>2</sup>

NOTE: Adjust fertilizer program for local conditions and requirements.

#### General Coverage:

25 lb. covers 1,000 ft<sup>2</sup> @ 1 lb N per 1,000 ft<sup>2</sup>.

1,100 lb. per acre provides 44 lb N per acre.

11.3 kg covers 93 m<sup>2</sup> and 125 g covers 1 m<sup>2</sup>@ 0.5 kg N per 100 m<sup>2</sup>.

1,250 kg per hectare provides 50 kg N per hectare.

### AMENDING LANDSCAPE SOIL BEDS

Scratch or work Sustāne into the top 2 to 4 in. (5 to 10 cm) of the soil prior to planting. Reapply at 45 days, spreading evenly over the bed surface.

#### LANDSCAPE & FLOWER APPLICATION RATES BY AREA

LB. PER 1,000 SQUARE FEET			KG PER 100 SQUARE METER		
LOW	MED	HIGH	LOW	MED	HIGH
18	36	56	8.8	17.6	27.4

#### CONTAINER MIX RATES BY VOLUME

LB. PER CUBIC YARD			KG PER CUBIC METER		
LOW	MED	HIGH	LOW	MED	HIGH
11	20	30	6.5	11.8	17.8

### FERTILIZING SHRUBS AND TREES

Apply ¼ cup of Sustāne for plants with a 2 ft. diameter canopy (60 cm<sup>2</sup> for 60 cm diameter canopy). Increase rates by ¼ cup for every additional 6 in. of canopy spread (60 cm<sup>2</sup> per 15 cm). Apply at planting or in the spring and fall for established trees and shrubs.

#### TREE PLANTING RATE PER TREE

	TREE TRUNK CALIPER (IN) <sup>2</sup>				
	1.25" (3 CM)	2" (5 CM)	3" (7.5 CM)	4" (10 CM)	5" (12.7 CM)
RATE (LB)	0.67	1.0	2.0	3.5	5
RATE (KG)	0.3	0.45	0.9	1.5	2.0

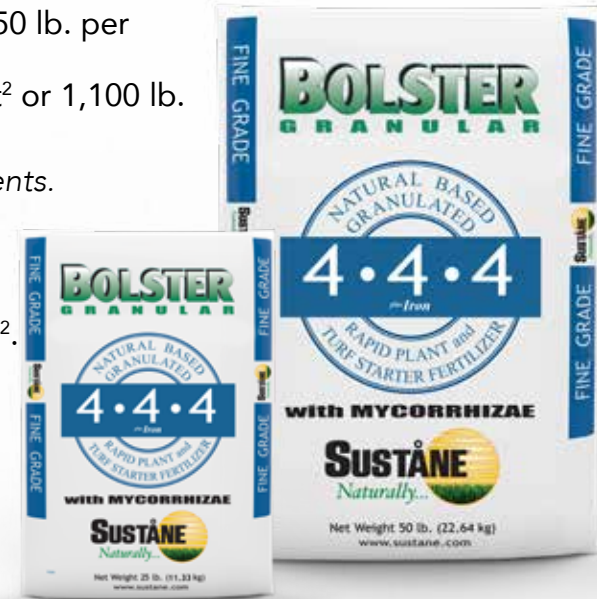
<sup>2</sup>Tree trunk caliper is measured 6 in (15 cm) above the soil surface

#### Available particle sizes:

##### FINE GRADE, 100 SGN (1.4 .MM - 0.6 MM)

Item #	Package Size	Units / Pallet
<b>BOLSTER Granular® 4-4-4 + 3Fe</b>		
50-30-1321	25 lb. bags	80 bags / pallet
50-30-1311	50 lb. bags	40 bags / pallet

DISTRIBUTED BY:



#### 4-4-4+3Fe Guaranteed Analysis

Total Nitrogen (N).....	4.0%
0.4% Ammoniacal Nitrogen	
0.4% Other Water Soluble Nitrogen	
3.2% Water Insoluble Nitrogen*	
Available Phosphate (P2O5).....	4.0%
Soluble Potash (K2O).....	4.0%
Calcium (Ca).....	4.0%
Magnesium (Mg).....	0.5%
Sulfur (S).....	1.0%
Iron (Fe).....	3.0%

Derived from aerobically composted turkey litter, feather meal, sulfate of potash and ferrous sulfate.

\*3.2% slowly available nitrogen from aerobically composted turkey litter and feather meal.

Also contains non-plant food ingredients:

Humic Acid.....	5.0%
(derived from leonardite and aerobically composted turkey litter)	
Seaweed Extract (Ascophyllum nodosum).....	1.0%

Vesicular Arbuscular Mycorrhizae .....1.75%

Guaranteed minimum 3.52 propagules per gram:

Glomus intraradices.....	2.47 prop./g
Glomus etunicatum.....	0.35 prop./g
Glomus deserticola.....	0.35 prop./g
Glomus clarum.....	0.35 prop./g

92.25% Total Fertilizer Ingredients

V. 05072019