

SUSTĀNE® 4•4•4

plus Biochar

Guaranteed Analysis

Total Nitrogen (N)	4%
0.4% Ammoniacal Nitrogen	
0.4% Slowly Available Water Soluble Nitrogen	
3.2% Water Insoluble Organic Nitrogen*	
Available Phosphate (P ₂ O ₅)	4%
Soluble Potash (K ₂ O)	4%
Calcium (Ca)	4%
Magnesium (Mg)	1%
Sulfur (S)	1%
Iron (Fe)	0.5%
Manganese (Mn)	0.05%

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

*3.2% slow release nitrogen derived from aerobically composted turkey litter and feather meal.

Contains Non-Plant Food Ingredients:

Biochar 10.0%

Store in a cool dry place. Keep out of reach of pets and children.

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Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

Product Description:

Sustāne 4-4-4+Biochar is an all natural, slow release fertilizer derived from biologically stable compost and carbonized biomass (biochar). Biochar is an enduring substrate that maintains beneficial soil physical, chemical and biological properties. The addition of Sustane + Biochar to the growing system maximizes nutrient and water efficiency and provides immediate results and cumulative benefits to plant performance when used annually.

Medium Grade: SGN 200 (2.8 mm - 1.4 mm)

Direction for Use:

4-4-4+Biochar provides constant release of nutrients when used with container substrates with average temperature of 70°F / 21°C. When determining application rates consider all cultural practices including irrigation, container substrate physical characteristics and growing environment.

Low Rate: Recommended for use on salt sensitive species; when concurrent with liquid feed; with production systems utilizing low leaching fractions (less than 10%); and when applied to heavy potting substrates (total porosity less than 65%).

Medium Rate: Recommended for use on medium feeding species; on most nursery stock and foliage plants; and when liquid feed is not performed concurrently.

High Rate: Recommended for use on heavy feeding species; with production systems utilizing high leaching fractions (greater than 20%); and when applied to light, porous substrates (total porosity greater than 80%).

Container Topdressing Application Rates in grams

Rate	Container Size								
	5" Std.	6" Std.	1 gallon	2 gallon	3 gallon	5 gallon	7 gallon	10 gallon	15 gallon
Low	3	6	7	15	28	45	63	77	82
Med	7	13	19	39	67	108	140	186	200
High	10	19	28	59	104	165	237	285	306

- These rates are intended as guidelines. Sustāne encourages a trial prior to changing any fertilizer program.
- Do not store container mix more than two weeks after incorporating fertilizer. Plant material can be damaged from salt accumulation.

Container Mix & Landscape Application Rates

Container Mix Rates by Volume					
lb. per cubic yard			kg per cubic meter		
Low	Med	High	Low	Med	High
5.5	10	15	3.3	5.9	8.9

Landscape Application Rates by Area					
lb. per 1,000 square feet			kg per 100 square meter		
Low	Med	High	Low	Med	High
9	18	28	4.4	8.8	13.7

Bulk Density of Sustāne 4-4-4+Biochar

Rounded Measure (volume)	Grams (weight)
1 teaspoon (tsp.)	2.8
1 Tablespoon (Tbsp.)	8.5
1 oz.	17
1/4 cup	34
1/2 cup	68
1 cup	136

- If mix is stored longer than two weeks, leaching container mix may be required to remove accumulated salts
- Do not steam sterilize container mix after fertilizer has been incorporated
- Monitor electrical conductivity (EC) of container substrate throughout production cycle. Adjust application rate as needed.

Net Wt. 50 lb. (22.67 kg)

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