

MEDIUM GRADE

**SUSTANE**  
*Naturally...*



ALL NATURAL  
SLOW RELEASE  
NITROGEN FERTILIZER

4•6•4

ALL NATURAL  
GRANULATED

4•6•4

SLOW RELEASE  
NITROGEN FERTILIZER



MEDIUM GRADE

Net Weight 50 lb (22.67 kg)

[www.sustane.com](http://www.sustane.com)



4•6•4

ALL NATURAL  
SLOW RELEASE  
NITROGEN FERTILIZER

MEDIUM GRADE



# 4 • 6 • 4

## SUSTĀNE:

Since 1987, Sustāne has been proud to be a part of the global movement toward a more sustainable world: better land management; protection of our waters; saving and rebuilding soils; improving crop yields; helping professional growers, home gardeners, and communities alike - all through the utilization of recycled, renewable, natural resources.

Sustāne Natural Fertilizers are supported by over 25 years of independent research. This is why professional growers worldwide trust in Sustāne for the production of certified organic crops, establishment and maintenance of high quality sports fields, help in stabilizing soils with new vegetation in environmentally sensitive areas, to produce beautiful vegetable gardens and ornamental landscapes and establish and maintain high quality turfgrass.

Sustāne 4-6-4 is a slow-release nitrogen fertilizer made from biologically stable compost, natural sulfate of potash and feather meal.

This product is recommended for use on vegetables, fruits, flowers and landscape beds, tree and shrub establishment, in potting soil mixes and for use as a turfgrass starter fertilizer.

### 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.  
250 g per m<sup>2</sup> or 2,500 kg per hectare.

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> or 1,250 kg per hectare.

### Overseeding:

Apply 25 lb per 1,000 ft<sup>2</sup> or 125 g per m<sup>2</sup>

### Hydroseeding:

Apply 500 to 4,000 lb per acre (560 to 4,480 kg per hectare).

NOTE: Adjust fertilizer program for local conditions and requirements.

### USGA Greens Construction

Sustāne 4-6-4 - 2 mm particle size meets USGA Specifications in combination with sand and peat\*

Volume	lb / Yd <sup>3</sup> of mix	lb / Ton of mix
1.5%	15.4	11.4

Volume	kg / m <sup>3</sup> of mix	kg / Tonne of mix
1.5%	9.1	5.7

ASSUMPTIONS: Bulk density of Sustāne 4-6-4 is 38 lb/cu ft (0.61 g per cm<sup>3</sup>)

\*Providing the sand and peat sources have been approved

### Greens Topdressing:

Application Rates (lb per ton) and corresponding amount of Nitrogen applied (lb of N per 1,000 ft<sup>2</sup>)

	4-6-4	Core Aeration	Frequent Top Dress
Volume	Rate lb/ton	0.34 ton/M	1.35 ton/M
1.5%	11.4	0.16	0.62
		0.07 ton/M	0.27 ton/M
		0.03	0.12

\*M = lb per 1,000 ft<sup>2</sup>

Application Rates (kg per tonne) and corresponding amount of Nitrogen applied (g of N per M<sup>2</sup>)

	4-6-4	Core Aeration	Frequent Top Dress
Volume	Rate kg/ton	3.3 kg/m <sup>2</sup>	13.2 kg/m <sup>2</sup>
1.5%	5.7	0.62	2.48
		0.68 kg/m <sup>2</sup>	2.6 kg/m <sup>2</sup>
		0.26	0.49

### General Coverage:

50 lb covers 2,000 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.  
22.67 kg covers 186 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.

### Covertura general:

50 libras cubre 2,000 pies<sup>2</sup> a una proporción de 1 libra de Nitrógeno por 1,000 pies<sup>2</sup>.  
1,100 libras por acre proporciona 44 libras de Nitrógeno por acre.  
22.67 kg cubre 186 m<sup>2</sup> y 125 g cubre 1 m<sup>2</sup> en una proporción de 0.5 kg de Nitrógeno por 100 m<sup>2</sup>.  
1,250 kg por hectárea proporciona 50 kg de Nitrógeno por hectárea.

### Spreader Settings (walk behind)\*:

Scotts LawnPro – 15\*\*

Scotts Professional – 5\*\*

Scotts Accupro 2000 – M ½\*\*\*

\*Make two passes at each setting. Each pass is a 5 ft (1.5 m) wide interval.

\*\*For 25 lb per 1,000 ft<sup>2</sup> (125 g per m<sup>2</sup>)

\*\*\*For 8.2 lb per 1,000 ft<sup>2</sup> (40 g per m<sup>2</sup>)

\*Spreader Settings: may vary due to walking speed and ground conditions

### General Guidelines for Garden, Nursery and Landscape Applications

**Low Rate:** Recommended for salt sensitive species or when applied to heavy, silty clay loam soils or heavy potting substrates (total porosity less than 65%).

**Medium Rate:** Recommended for use on medium feeding species or when applied to medium, clay loam soils and most potting substrates (total porosity 65 to 80%).

**High Rate:** Recommended for use on heavy feeding species or when applied to light, sandy soil or 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
Low	6	12	14	30	56
Med	14	26	38	78	134
High	20	36	56	118	208

#### Greenhouse & Nursery Container Mix Rates

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

#### 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

#### Seed Starting/Bedding Plants Rates by Volume

Mix Rates by Volume					
lb. per cubic yard			kg per cubic meter		
Low	Med	High	Low	Med	High
6	9	12	3.6	5.3	7.1

#### Vegetable Gardens Application Rates by Area\*

Plant	Tbsp / ft <sup>2</sup>	Lb / 100 ft <sup>2</sup>	Grams / M <sup>2</sup>
Tomatoes	2.75	5.75	281
Lettuce	2.5	5	244
Cucumbers	1.33	2.75	134
Peppers	0.4	0.8	39

\*Visit [www.sustane.com](http://www.sustane.com) for rates for other specific crops.

\*Adjust to higher rates for areas with higher plant densities.

### 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.

**Reparación de una extensión del terreno:** Preparar o colocar Sustane en la superficie de 2 a 4 pulgadas (5 a 10 cm) del suelo antes de plantar. Repetir a los 45 días, esparciendo uniformemente sobre la superficie de la extensión del suelo a trabajar.

### Fertilizing Shrubs and Trees:

Apply ¼ cup of Sustane 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.

**Fertilización de árboles y arbustos:** Colocar ¼ de taza de Sustane para plantas que tienen una copa de 2 pies de diámetro y de ancho (60 cm<sup>2</sup> por 60 cm de diámetro). Aumentar las proporciones, con ¼ de taza, por cada 6 pulgadas más del tamaño de la copa (60 cm<sup>2</sup> por 15 cm). Colocar fertilizante al plantar en la primavera, y en el otoño para los árboles y arbustos establecidos.

#### Tree Planting Rate Per Tree

	Tree trunk caliper (in) <sup>1</sup>				
	1.25" (3cm)	2" (5cm)	3" (7.5cm)	4" (10cm)	5" (12.7cm)
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

#### Tree Maintenance Rate Per Tree

	Tree trunk caliper (in) <sup>1</sup>				
	1.25" (3cm)	2" (5cm)	3" (7.5cm)	4" (10cm)	5" (12.7cm)
rate (lb)	1.33	1.5	2.33	4.33	6
rate (kg)	0.6	0.45	0.9	1.5	2.5

### Agricultural Crops:

\*\*Recommended fertilizer application rates for agricultural crops are crop, crop yield goal, soil and climate specific. Please refer to your soil test results or to the recommendations of your area agricultural extension agent and/or crop consultant for specific recommendations. Additional crop specific application information and fertilizer research is available at [www.sustane.com](http://www.sustane.com). You can also contact your regional Sustane technical representative for additional guidance.

### Productos Agrícolas:

\*\*Las proporciones para colocar el fertilizante recomendadas para los productos agrícolas cosechados son el rendimiento máximo de cosechas específico para el clima y suelo del lugar.

### Guaranteed Analysis:

Total Nitrogen (N) . . . . . 4%  
0.4% Ammoniacal Nitrogen  
0.4% Other Water Soluble Nitrogen  
3.2% Water Insoluble Nitrogen\*

Available Phosphate (P<sub>2</sub>O<sub>5</sub>) . . . . . 6%  
Soluble Potash (K<sub>2</sub>O) . . . . . 4%  
Calcium (Ca) . . . . . 4%  
Magnesium (Mg) . . . . . 1.00%  
Sulfur (S) . . . . . 1.00%  
Iron (Fe) . . . . . 0.50%  
Manganese (Mn) . . . . . 0.05%

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

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

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

Store in a cool, dry place.

Keep out of reach of pets and children *Almacenelo en un lugar oscuro, fresco y seco. Mantengalo fuera del alcance de los niños y mascotas.*

### Granulation Specifications:

Medium Grade: Mesh Size -7+14  
(2.8 mm to 1.4 mm) SGN 200

F689

NET WEIGHT 50 IB (22.7 kg)

PESO NETO 50 IB (22.7 kg)

Manufactured by Sustāne® Natural Fertilizer, Inc.  
310 Holiday Avenue • Cannon Falls, MN 55009 U.S.A.  
+1(507) 263-3003 • e-mail: [help@sustane.com](mailto:help@sustane.com)

[www.sustane.com](http://www.sustane.com)



Visit [www.sustane.com](http://www.sustane.com) for more information.



Notice: Read Before Using Product  
The product may not be applied near water, storm drains, or drainage ditches. The product may not be applied if heavy rain is expected. The product may only be applied to the intended application site. Material that lands on an impervious surface must be swept back onto turf.  
Use of this product is subject to the following disclaimer of warranties and conditions (including limitations of liability).  
Disclaimer of Warranties: There are no warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, which extend beyond the printed statements on this package. Under no circumstances shall Sustane Natural Fertilizer, Inc. be liable for any incidental or consequential damage resulting from a failure to use this product in accordance with the printed directions on this package.  
Conditions: The printed directions on this package are for the protection of the user. Any use of this product not in conformity with those printed directions is at the risk of the user.  
Limitations of Liability: In no event shall Sustane Natural Fertilizer, Inc.'s liability for damages arising out of the use of this product exceed the purchase price of the product.



LDPE  
recyclable  
plastic