



*Known Worldwide  
For Being Simply  
the **Best...**  
Natural Fertilizers  
& Soil Builders*

**Recommended Use:**

Sustane 5-2-4+Fe is the all-purpose turf food and is available in either Medium Grade (lawn and fairway applications) or Fine Grade for putting greens. Suitable for use on all turfgrass types providing quick green up followed by long lasting slow release organic nitrogen. Use where even growth and color is needed for six to eight weeks.

**Description:**

Sustane 5-2-4+Fe is the original Sustane formula first created in 1988. As this was the first Sustane product available on the market it soon became the standard organic evaluated by numerous universities. Michigan State University, Cornell, University of Rhode Island were three of the first research facilities to discover that Sustane 5-2-4+Fe was highly suppressive of common diseases affecting cool season grasses including root Pythium, Necrotic Ring Spot, Red Thread and to a lesser extent various patch diseases. More organic fertilizer studies have been run utilizing Sustane 5-2-4+Fe as the standard against which all other “organics” are compared.

5•2•4+Fe

**SUSTANE®**

**GRANULATED NATURAL BASED  
SLOW RELEASE NITROGEN FERTILIZER**

**Benefits of Sustane® 5•2•4+Fe**

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

**Enhanced Disease Suppression  
Begins with Sustane Natural Based Fertilizers**

Results of studies conducted over the past 20 years have clearly shown the potential for compost amendments to reduce the severity and incidence of a wide variety of turfgrass diseases. For best results in disease suppression apply either as a topdressing after core aeration, as a late autumn winter cover, mixed as a root zone amendment or better yet use as the standard fertilizer treatment three to four applications per growing season.

Studies have shown that applying Sustane 5-2-4 plus Iron results in a significant decrease in many turfgrass diseases. The numbers below represent the percent decrease in severity of turfgrass diseases.

| Organic Amendment    | Brown Patch | Dollar Spot | Red Thread | Pythium Root Rot |
|----------------------|-------------|-------------|------------|------------------|
| Sustane 5-2-4+Fe     | 75.0        | 30.3        | 78.7       | 52.6             |
| Fungicide Standard   | 88.9        | 97.0        | ---        | 42.1             |
| Sludge Compost       | 8.3         | 0.0         | 0.0        | ---              |
| Leaf Compost         | 38.9        | 4.5         | 0.0        | ---              |
| Horse Manure Compost | 0.0         | 0.0         | 0.0        | ---              |

Credit Dr. Eric Nelson, Cornell University

# Sustâne® 5•2•4+Fe

## NATURAL BASED

### PRODUCT SPECIFICATIONS

#### *Fine and Medium Grades Application Information:*

Sustâne® 5-2-4 with Iron granulated slow release fertilizer and soil builder should be part of any sound integrated turf management and long term soil building program. Applications of Sustâne® 5-2-4 with Iron throughout the year will continually replenish the soil with a rich supply of humus and microbes which contribute to the efficient uptake of plant nutrients.

#### *Sustâne® Integrated Turf Program\**

The following chart shows the recommended amounts of Sustâne® 5-2-4 with Iron for a typical integrated program.

| SPECIAL USE APPLICATIONS         | GREENS & TEES           |                                                          | FAIRWAYS, ATHLETIC FIELDS, PARKS & LAWN CARE |                                                          |
|----------------------------------|-------------------------|----------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|
|                                  | Rate (Lb./1000 Sq. Ft.) | Application Frequency                                    | Rate (Lb./1000 Sq. Ft.)                      | Application Frequency                                    |
| Early Feeding                    | 10-20                   | 1-2                                                      | 10-20                                        | 1-2                                                      |
| Turf Establishment               | 15-25                   | 2                                                        | 10-20                                        | 2                                                        |
| Summer Stress/Disease Prevention | 10-20                   | Monthly                                                  | 10-20                                        | Monthly                                                  |
| Core Aeration                    | 10-20                   | 1-2                                                      | 10-15                                        | 2                                                        |
| Overseeding                      | 10<br>15<br>15          | At Overseeding<br>30 Days Following<br>60 Days Following | 10<br>15<br>15                               | At Overseeding<br>30 Days Following<br>60 Days Following |
| Dormant Feeding                  | 20                      | Prior to Dormancy                                        | 20                                           | Prior to Dormancy                                        |
| Snow Mold                        | 20-30                   | 1 Late Season<br>1 Early Spring                          | 20-30                                        | 1 Late Season<br>1 Early Spring                          |

\*NOTE: Adjust fertilizer program for local conditions and requirements.

#### Northern Turf

##### *Athletic Fields, Parks, and Lawncare-*

Apply 2-3 times per season. Spring and Fall rate 20 lb. per 1000 sq. ft; Summer rate 15 lb. per 1000 sq. ft.

##### *Greens and Tees-* Apply 3-4 times per season.

Spring and Fall rate 20 lb. per 1000 sq. ft. Summer rate 15 lb. per 1000 sq. ft.

#### Southern Turf

##### *Athletic Fields, Parks, and Lawncare-*

Apply 4-7 times per season at a rate not exceeding 20 lb. per 1000 sq. ft. per application.

##### *Greens and Tees-* On Bermuda Grass, 20 lb.

per 1000 sq. ft. per application every 30-45 days or as dictated by clipping weight.

#### Coverage

50 lbs. covers 2500 sq. ft. @  
1 lb N per 1000 sq. ft. (44 lbs. N per acre)  
22.67 kg. covers 232 sq. meters @  
0.5 kg. N per 100 sq. meters (50 kg. N per hectare)  
20 lbs. per 1000 sq. ft.  
100 g. per 1 sq. m.

#### Available particle sizes:

Medium Grade, 200 SGN (2.8mm - 1.4 mm)  
Fine Grade, 100 SGN (1.4mm - 0.6 mm)

#### Guaranteed Analysis

|                                                            |    |
|------------------------------------------------------------|----|
| Total Nitrogen (N) .....                                   | 5% |
| 1.3% Ammoniacal Nitrogen                                   |    |
| 0.2% Water Soluble Organic Nitrogen                        |    |
| 3.5% Water Insoluble Organic Nitrogen*                     |    |
| Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) ..... | 2% |
| Soluble Potash (K <sub>2</sub> O).....                     | 4% |
| Calcium (Ca).....                                          | 3% |
| Iron (Fe) .....                                            | 2% |

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

\*3.5% slowly available nitrogen from aerobically composted turkey litter and hydrolyzed feather meal

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