



Integro BG Soil Sulfur

Guaranteed Analysis

Sulfur (S)99.9%

Derived from: Elemental Sulfur

Net weight: 50lbs/22.67Kg or BULK (See Invoice)

GENERAL INFORMATION

Integro BG Soil Sulfur is a sulfur pastille that can be blended with other fertilizers or can be applied by itself. The sulfur is used to treat sodic soils when lime is present and to reduce the soil pH. The sulfur is oxidized and combines with water to form sulfuric acid. The sulfuric acid reacts with the lime in the soil to form Gypsum or Calcium Sulfate. The Gypsum reacts with the sodium in the soil to form a calcium based soil which promotes better water penetration and aeration. Sodium sulfate is formed during this reaction and can be leached out through the soil profile. As a general rule, one-acre foot of water passed through the soil will leach out 90% of the salts.

HOW SULFUR WORKS

Sulfur is oxidized by burning or by the thiobacter in the soil. In the soil, the thiobacter needs three conditions to convert the sulfur. First, the soil must be warm. Second, adequate moisture is needed. And third, the sulfur must be covered by the soil. The rate of conversion is highly dependant on the sulfur particle size. Smaller particles with high surface to weight ratios will convert faster than large particles. Integro's 3 mm size pastilles will convert totally in one growing season under normal growing conditions.



RATES

One ton of sulfur is equivalent to 5.35 tons of 100% Gypsum or 10.70 tons of 50% Gypsum. By applying a fertilizer blend of 200 to 400 pounds of sulfur each year (equal to 1,070 to 2,140 pounds of 100% Gypsum), you may prevent a sodium buildup in the soil. If the irrigation water or soil has a high sodium level, then more sulfur may be required. By applying sulfur every year with your fertilizer, you may be saving in application cost and may be preventing the gradual build up of a sodic or alkali soil condition.

When lime is present in the soil, sulfur is the most cost effective way for treating a sodic soil condition.

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