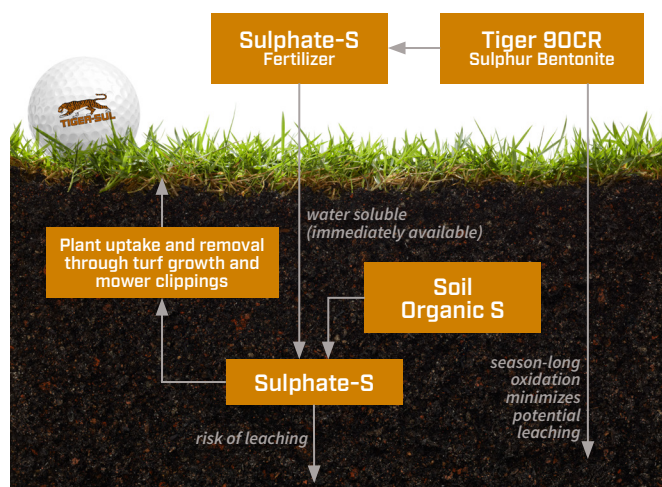


THE SULPHUR ADVANTAGE FOR TURF AND ORNAMENTAL

THE SULPHUR CHALLENGE

Sulphur always has, and always will be, an important component of high quality turfgrass and healthy landscape plants. Reductions in sulphur emissions are creating an ever-increasing global necessity for fertilizers that contain sulphur. Combined with leaching this has created sulphur deficiencies in many areas of the world. The absence of sulphur affects turfgrass, ornamental, and landscape plants.

THE SULPHUR CYCLE



The Sulphur Challenge is how to economically combat sulphur deficiencies and ensure healthy turfgrass. The solution: Tiger 90CR® Sulphur.

THE EFFECTS OF SULPHUR DEFICIENCY

Sulphur deficiency symptoms typically include:

- Very similar to those of nitrogen, yellowing of leaf
- Occurs when N to S ratio is greater than 20 to 1 or when S levels are below 0.15% in leaf tissue

Sulphur deficiency has become a more important factor in soil fertility plans.



Including Tiger 90CR Sulphur in your soil fertility program can provide many benefits because sulphur:

- Is required for nitrogen fixation
- Enhances nitrogen use efficiency
- Is essential for protein synthesis
- Improves availability of phosphorus and some micronutrients
- Microorganisms require S to decompose plant residue
- Grasses respond favorably to applications of sulphur
- Helps lower soil pH for grasses, plants and trees adversely affected by high pH conditions

SUPERIOR HANDLING

The high analysis of Tiger 90CR® Sulphur (0-0-0-90), means each pastille is 90% sulphur. It is almost four times more concentrated than ammonium sulphate, which results in less product to handle, blend, and spread. The consistent size and shape of the pastilles allow for ease of spreading.

TIGER 90CR SULPHUR ACCELERATED CONVERSION

Tiger 90CR Sulphur contains a special blend of bentonite clay to facilitate pastille fracturing and disperse the sulphur particles. Research shows that Tiger 90CR Sulphur converts to sulphate faster than other forms of degradable elemental sulphur.



THE SULPHUR ADVANTAGE FOR TURF AND ORNAMENTAL

TIGER 90CR SULPHUR® SOIL AMENDING PROPERTIES

Tiger 90CR Sulphur® is ideally suited for soil amending high pH (alkali), or sodic soils. It quickly creates sulphuric acid for immediate and season-long soil amending needs. This makes it a great choice for landscape plants that require lower pH for optimum growth.

TIGER 90CR SULPHUR REQUIRED TO DECREASE SOIL pH LAWNS AND TURF*

Desired Change in pH	Application rate based on soil texture ¹ (Pounds of Sulphur per 1000 ft ²)		
	Sand	Silt Loam	Clay
8.5 to 6.5	6	11	22
8.0 to 6.5	5	10	21
7.5 to 6.5	4	9	18
7.0 to 6.5	3	6	11
8.5 to 5.5	13	25	51
8.0 to 5.5	12	24	49
7.5 to 5.5	11	23	47
7.0 to 5.5	10	20	39

¹Assumptions : cation exchange capacity of the sandy, silt loam, and clay soils are 5, 10, and 15 meq/100 g, respectively; soils are not calcareous.

The above rates are based on incorporating sulphur into the soil 4 inches deep.

Note: When applying on an established turf the application rate should not exceed 2.5 lbs. S/1000 ft² per application. It is recommended that multiple applications occur on 10-12 weeks intervals.

If irrigation (1/2 inch water) will occur immediately after application, maximum of 4 lbs S/1000 ft² may be applied. Over application may burn turf foliage.

In all cases, Tiger-Sul recommends that professional advice be obtained prior to starting a soil amending program.

- Apply appropriate amount of **Tiger 90CR Sulphur** according to soil amending needs recommended by a soil professional.
- Monitor soil pH levels and determine if additional **Tiger 90CR Sulphur** applications are required.

If you're not using TIGER 90CR Sulphur, it's time to switch! Visit: www.tigersul.com/tiger90cr

TIGER 90CR SULPHUR, MAKING GOOD TURF AND ORNAMENTAL BETTER!

- **Economical:** High analysis provides less product handling and storage, and less cost per pound of actual plant nutrient.
- **Effective:** Increased nitrogen utilization, phosphate and micronutrient uptake.
- **Stable:** Resists leaching until converted to sulphate form.
- **High-Quality:** Industry leading quality and product uniformity.
- **Long-Term Availability:** Sulphur particles convert to sulphate throughout the season and act as building blocks to provide long-lasting, healthy soil conditions.

*Sources: Adapted from --- Robert Mullen & et.al. 2012. Soil Acidification: How to Lower Soil pH. Fact Sheet AGF-507-07. Ohio State University Extension.

James Murphy & Joseph Heckman. 2003. Managing Soil pH for Turfgrasses. Rutgers University Extension. Extension Publication, Fact Sheet FS635.

References: The Nature and Properties of Soils, Author: Nyle C. Brady, Tenth Edition; Southern Turfgrass: Their Management and Use, Author: Richard L. Duble, ©1989



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