



pHusion Manganese 7% 4% Sulfur

For Soils that are deficient in Manganese



Guaranteed Analysis

Sulfur (S) 4.00%
 Combined Sulfur
 Manganese (Mn) 7.00%

Derived from Manganese Sulfate

pHusion Manganese 7% is an acid-based manganese liquid that is ideal for correcting manganese deficiencies in the soil. The acid-based liquid formulation aids in dissolving bicarbonates. Manganese availability increases when soil pH is maintained below 6.8. Manganese influences photosynthesis and is involved in several plant enzymes that promote chlorophyll production in the plant. The result is a darker, natural green tissue.

Turf that is grown in soils that have higher soil pH than 6.8 and low manganese levels may be prone to certain undesirable disease pathogens that may cause detrimental results due to low available manganese levels. pHusion Manganese 7% can correct soil manganese deficiencies, improve plant growth and provide healthier plants through better nutrition when applied properly.

- Weight per Gallon 10.32 lbs. (1.237kg/liter)
- Each gallon contains:
 .41 lb Sulfur
 .72 lb Manganese
- pH 2.0

Directions for Correcting Manganese Soil Deficiencies:

Greens, Tees & Fine Turf: Apply 2.0 - 3.0 oz. of pHusion Manganese 7% with 1.5 - 2 gallons of water per 1,000 sq. ft. (0.7 - 1.0 gallon of pHusion Manganese 7% with 66 - 88 gallons of water per acre). Irrigate immediately to move into the soil profile. Do Not let liquid spray dry on the leaf. Applications should be made in Spring or Fall. For improved performance, tank mix with Ammonium Thiosulfate and FloThru Plus Penetrant. Irrigate immediately to move off the turfblade, and into the soil profile. (Avoid spraying in periods of low humidity or when turf is under severe stress.)

Take All Patch Reduction Applications: Apply 18 oz. of pHusion Manganese 7% per 1,000 sq. ft. (6.13 gallons per Acre) in sufficient water to ensure thorough coverage (usually 2 - 3 gallons of water per 1,000 sq. ft.). Irrigate immediately to move into the soil profile. Do not let liquid spray dry on the leaf. Applications should be made in Spring or Fall. For improved performance, tank mix with Ammonium Thiosulfate and FloThru™ Plus Penetrant. Irrigate immediately to move off the turf blade, and into the soil profile. (Avoid spraying in periods of low humidity or when turf is under severe stress.)

Take-All Patch Reduction Program							
Product	Fluid Oz/ 1,000 sq. ft.	Gallons/ One Acre	ML/ 100 M ²	L/HA Litre/ Hectare	Nitrogen/ 1,000 sq. ft.	Sulfur/ 1,000 sq. ft.	Manganese/ 1,000 sq. ft.
pHusion Manganese 7%, 4% Sulfur	18*	6.13	573	57		0.058	0.1016
Amm. Thiosulfate 12-0-0 26% S	12	4.08	382	38	0.124	0.269	
FloThru Plus Penetrant	3	1.02	95	10			
Total from Tank Mix					0.124	0.327	0.1016
* At the 18 oz per 1,000 sq. ft. rate, the pHusion Manganese 7% delivers 4.42 lbs of actual Manganese per acre							
Comments: Best time to apply is Spring or Fall before the effects of these specific diseases become evident. Spray in 2 gallons of water per 1,000 sq. ft. and irrigate immediately to move these nutrients off the plant leaf and into the soil.							
This nutrient combination improves plant growth and provides healthier plants through better nutrition. Increasing Manganese concentration in the soil can prevent the damaging effects of certain soil diseases. These nutrients are NOT a fungicide, and make no claims of being one.							

Fairways, Roughs, Sports Turf & Lawns: Apply 0.7 - 1.0 gallon of pHusion Manganese 7% with 44 - 88 gallons of water per Acre (2.0 - 3.0 oz of pHusion Manganese 7% with 1 - 2 gallons of water per 1,000 sq. ft.) every 3 to 4 weeks, or as needed, throughout the growing season.

Application Rates for pHusion Manganese 7%, 4% Sulfur					
Fluid Oz/ 1,000 sq. ft.	Gallons/ One Acre	ML/ 100 M ²	L/HA Litre/ Hectare	Sulfur/ 1,000 sq. ft.	Manganese/ 1,000 sq. ft.
2.0	0.7	64	6	0.006	0.0113
3.0	1.0	95	10	0.011	0.0169
4.0	1.4	127	13	0.013	0.0226
6.0	2.0	191	20	0.019	0.0339
12.0	4.1	382	40	0.039	0.0677
15.0	5.1	477	48	0.048	0.0847
18.0	6.1	573	60	0.058	0.1016

Available Container Sizes:

- 2 x 2.5 gal (2 x 9.46 L) Case
- 30 gal (113.56 L) Drum
- 55 gal (208.20 L) Drum
- 275 gal (1040.99 L) Tote

Store above 32° F. Do not allow to freeze.

pHMN7

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