



PREMIUM GREEN® 5-3-1 PLUS WITH MYCORRHIZAE

General Turf Fertilizer/Soil Conditioner, with Live Soil Organisms

Gro-Power® products are based on naturally oxidized leonardite from our own mine in New Mexico. Leonardite adds organic matter to soils that provides a concentrated source of humic and fulvic acids—which stimulates soil microbial life and soil fertility, enhances plant nutrient availability and uptake, improves root development and root mass and growth, and increases plant growth and quality.

Guaranteed Analysis

Active Ingredients:

Total Nitrogen (N)	5.00%
1.00% Ammoniacal Nitrogen	
4.00% Urea Nitrogen	
Available Phosphate (P ₂ O ₅)	3.00%
Soluble Potash (K ₂ O)	1.00%
Iron (Fe)	1.00%
Manganese (Mn).....	0.05%
Zinc (Zn)	0.05%

Derived From: ammonium phosphate, urea, potassium sulphate, and oxides of iron, manganese, and zinc.

Also Contains Non-Plant Food Ingredients:

15.00% Humic Acids (derived from leonardite)
1.00% Alkyl Naphthalene Sodium Sulfonate (soil penetrant)

Mycorrhizae:

Contains 606 viable mycorrhizal propagules per gram of the following organisms:

ECTOMYCORRHIZAE	propagules/gram
<i>Pisolithus tinctorius</i>	550.00
<i>Scleroderma cepa</i>	7.00
<i>Scleroderma citrinum</i>	7.00
<i>Rhizopogon villosulus</i>	14.00
<i>Rhizopogon luteolus</i>	7.00
<i>Rhizopogon amylopogon</i>	14.00
<i>Rhizopogon fulvigleba</i>	7.00
ENDOMYCORRHIZAE	propagules/gram
<i>Glomus intraradices</i>	0.10
<i>Glomus mosseae</i>	0.10
<i>Glomus aggregatum</i>	0.10
<i>Glomus etunicatum</i>	0.10

Physical Properties:

Form: solid granules
Appearance: Dark reddish-brown-to-black particles/dust having no odor.

Caution: Keep out of reach of children.
Harmful if swallowed.

WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

Conditions of Sale: The information contained in this bulletin is believed to be accurate and reliable. Buyer and user acknowledge and assume all liability

resulting from the use of this material. Follow directions carefully. Timing, method of application, weather, and other factors are beyond the control of the seller.

Available Product Bag Sizes:

Commercial: 50 lb. in Greens Grade



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Gro-Power® **Premium Green® 5-3-1 Plus with Mycorrhizae** both fertilizes and conditions the soil. It is designed to be used with greens, tees, bowling greens, sport fields, and any other areas where fine-bladed Bent and Hybrid Bermuda, Zoysia, St. Augustine, and other turf varieties are utilized. This product has all the benefits from **5-3-1 Plus** (with nitrogen, phosphorus, potassium, micronutrients, humic acids, and a soil penetrant), in addition to improving the soil natural environment with a broad spectrum of endo- and ectomycorrhizae inoculum. Gro-Power® **Premium Green® 5-3-1 Plus with Mycorrhizae** contains no sewage, sludge, animal or poultry manure. The product is homogeneous and contains non-staining iron. The particle size (Green Grade, -14+35 [100 SGN]) will ensure even distribution, rapid penetration into the root zone, and minimum mower pick-up.

Mycorrhizae are live organisms (pay attention to the expiration date on the label). Added mycorrhizae to the soil helps plants to access water and nutrients, particularly phosphorus. Research has also found that mycorrhizae may increase availability of the essential nutrients such as potassium, calcium, zinc, and magnesium.

Benefits of use:

- Provides key plant nutrients: nitrogen, phosphorus, potassium, micronutrients, and humic acids
- Improves subsoils, problematic soils, and sandy soils
- Improves soil health and fertility
- Supports soil biodiversity
- Improves nutrient uptake
- Enhances soil structure
- Increases soil water retention capacity
- Ensures deep and healthy roots
- Provides protection from extreme weather conditions and increases plant resistant to diseases
- Helps in achieving vibrant color

Soil Preparation

IMPORTANT: Water thoroughly after applying fertilizer. At heavier application rates, watering in is more important.

CAUTION: Do not over apply. Apply to only dry turf or foliage, then irrigate. Use discretion to establish an accurate spreader setting.

Apply every 2 to 4 weeks	Amt. of N Desired	Amt. of Product per 1,000 sq. ft.	Amt. of Product per Acre
Light	¼ to ½ lb	5–10 lbs.	217–436 lbs.
Normal	½ to ¾ lb	10–15 lbs.	436–653 lbs.
Heavy	1 lb	20 lbs.	871 lbs.

New Construction/Renovation

Use **Premium Green® 5-3-1 Plus with Mycorrhizae** at 200 lbs per 1000 sq. ft. per cubic yard, or **8-8-8 MU** at 100 lbs, per 1,000 sq. ft., or 8 lbs per cubic yard of mix for green/sand-based fields.