



5-3-1 PLUS WITH MYCORRHIZAE

General Fertilizer/Soil Conditioner with Penetrant & Live 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, oxides of iron, oxides of manganese, and oxides of 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.



LEARN MORE

Gro-Power® **5-3-1 Plus with Mycorrhizae** both fertilizes and conditions the soil. It is designed to be used with subsoils, poor problematic soils, and sandy soils. 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® **5-3-1 Plus with Mycorrhizae** contains no sewage, sludge, animal or poultry manure. The product is homogeneous and contains non-staining iron.

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 resistance to diseases
- Helps in achieving vibrant color

SOIL PREPARATION

IMPORTANT: Before the first application of Gro-Power® **5-3-1 Plus with Mycorrhizae**, if possible, aerate soil to faster get the penetrant down into the compacted soil. Immediately after application, water thoroughly, taking care to wash Gro-Power® **5-3-1 Plus with Mycorrhizae** off grass blades or other foliage. Gro-Power® **5-3-1 Plus with Mycorrhizae** can be applied to the tenderest grass, but do not use as a top-dress on seed. Do not apply on cool season grass when temperature is above 85 degrees.

| SOIL SETTINGS | APPLICATION RATES |
|----------------------------|---|
| Topical Application | 20-30 lbs. per 1000 sq. ft. Water immediately and thoroughly to wash product into soil and planting areas. |
| Soil Preparation | Within the top: 1-2" of soil 100 lbs per 1000 sq. ft. 3-6" of soil 200 lbs per 1000 sq. ft. |
| Backfill | 5 to 8 lbs. per cubic yard of mix |
| Storage Conditions | Store in a cool dry place. Keep out of direct sunlight. For optimum inoculation, mycorrhizae spores must be in direct contact with root/seed and used within its expiration date. |