

# BIOSOL FORTE

All-Purpose, Long-Lasting Organic Fertilizer



## Manufacturing of Biosol Forte

A beneficial fungal biomass (mycelium) is obtained by the fermentation of raw materials such as soybean meal, cottonseed meal, sucrose, lactose, trace elements and vitamins under constant sterile conditions. The fungus strain used is *Penicillium Chrysogenum* (dry mycelium). A nutrient broth of active ingredients is extracted from that fungal biomass and is mixed with a bacterial biomass (from the manufacturing of various antibiotics, enzymes, proteins, etc.). This broth then undergoes a second fermentation of 20-24 hours in which the dissolved nutrients are bound in a bacterial biomass. The biomass is dried at 110°-130° C for approximately 4-6 hours.

**Composition of Biosol Forte:** 96% fungal and bacterial biomass & 4% water | **Nutrient Ratio:** N-P-K = 7-2-1

### Guaranteed Analysis:

Total Nitrogen	7%
Water Soluble Nitrogen	0.50%
Water Insoluble Nitrogen*	6.50%
Available Phosphate	2%
Soluble Potash	1%
<i>*6.5% slowly available nitrogen from fermented organic material</i>	

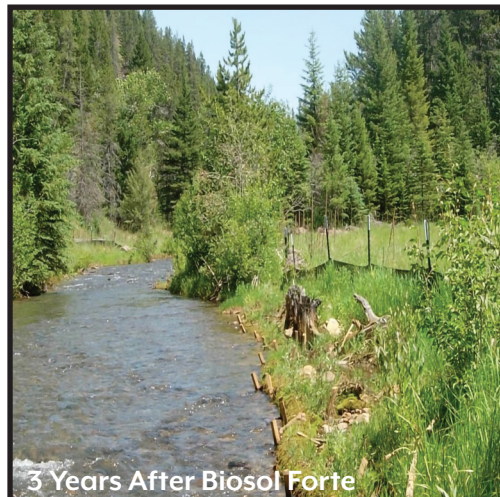
### Nutrients Derived from Fermented Cottonseed Meal & Soybean Meal:

Organic Matter	> 75%
Carbon/Nitrogen Ratio	5:1
pH Level	7.1
Iron	2%
Calcium	3%

Biosol Forte does not contain any animal waste, animal by-products or any chemicals.  
Any heavy metal contents are within the tolerance limits for animal feed.

## Properties of Biosol Forte

Biosol Forte is a fermented plant-based organic fertilizer, sterilized and free of weed seeds. Biosol Forte's beneficial bacterial biomass and fungal biomass enhance soil health and microbial life. This unique slow-release nutrient formulation provides vital plant nutrients throughout the entire growing season due to the fermented organic material. There is an increased effect on the formation of humus, root mass and the living microbial biomass in the soils. Promoting a healthy balance of microbial life ensures long-term plant color and plant health. This results in far lower concentrations of nitrates or phosphorous in ground water than mineral fertilizers. Biosol Forte will not burn seed or vegetation and is safe to be used around animals, children, lakes and streams. Biosol Forte may be used in similar applications as Biosol with the exception of organic farming.



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### Biosol Forte Applications

#### Revegetation of Disturbed Soils

Biosol Forte is ideal for any application involving poor or disturbed soils, including mining reclamation, road cut revegetation, high altitude revegetation and soil restoration. Used for both primary and secondary fertilization, Biosol Forte can be dry broadcasted or applied with a hydroseeder. There is no difference in the results.

#### Lawns, Gardens, Flowers, Trees, etc.

Biosol Forte will not burn vegetation, but should be watered for the best results.

##### Application Rates:

- Lawns & Playing Fields: 13-25 pounds per 1,000 square feet twice per year
- Garden Preparation: 2 ounces per square yard ( $\frac{1}{8}$  cup)
- Potted Flowers & Compost:  $\frac{1}{2}$  ounce per gallon ( $\frac{1}{8}$  cup)
- Vegetables: 2 ounces per square yard ( $\frac{1}{8}$  cup)
- Ornamental Trees & Shrubs: 6 ounces per square yard (1 cup)
- Soil Mixes:  $8\frac{1}{2}$  pounds per cubic yard
- Reclamation: 1,500-2,000 pounds per acre
- Maintenance Fertilization: 800-1,200 pounds per acre

#### Turf Grasses, Forestry (Trees & Shrubs) & Viticulture (Grape Cultivation)

The lasting efficacy of Biosol Forte is particularly beneficial for turf grasses, and Biosol Forte has been used and tested by forestry services and departments all around the world. First-year applications should always be the heaviest. Application rates after the first year may be reduced.

In viticulture, Biosol Forte has been used all over the world for many years with superior results. During thirteen years of experiments and trials (from 1988 to 2001), Biosol Forte was proven to increase sugar yields in grapes. The average yearly sugar yield increased by approximately 13%.

#### Fertilizing Young Plants

Good and proper farming practices should always be followed when using Biosol Forte. It is very important that Biosol Forte is spread on the soil surface. When planting young plants, add Biosol Forte to the soil at least two weeks before the planting occurs. This is especially important with tomatoes and peppers.



Before Biosol Forte



2 Months After Biosol Forte