

# BIOSOL® FORTE

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Biosol Forte is a multi-nutrient fertilizer due to the complex organic compounds in the organic material. Biosol Forte is a Fermented Plant Based Organic Fertilizer and soil amendment.

Biosol Forte is a natural re-occurring beneficial bacterial and fungal biomass produced from fermented plant material, vitamins, proteins and enzymes. When these materials go through the fermentation process they become an organically bound, stable and slow releasing organic nutrient. Nutrients become available for plant uptake when the soil temperatures, microbial activity and water are right for growing conditions. This is the result of supplying an organically bound, stable nutrient source to soils, developing and encouraging nutrient cycling in soils for long term soil health and plant growth.

The chitin content in Biosol Forte (approximately 3-5%) is a vital substance for supporting healthy soil and plant life by reducing soil borne pathogens and diseases. The proteins contained in Biosol Forte will be available during the growing seasons to enhance soil life and establish a better soil structure. Biosol Forte provides the necessary beneficial fungal and bacterial biomass to increase soil activity, plant growth and will build soil humus seven times faster than natural succession.

## COMPOSITION

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### NUTRIENT RATIO

**N-P-K = 7-2-1**

#### Specifications:

##### Guaranteed Analysis:

Total Nitrogen (N).....	7%
0.50% WATER SOLUBLE NITROGEN	
6.50% WATER INSOLUBLE NITROGEN *	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	2%
Soluble Potash (K <sub>2</sub> O).....	1%

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

Organic Matter: .....	>75%
Carbon/Nitrogen Ratio.....	5:1
pH level.....	7.1
Iron (Fe).....	2%
Calcium (CaO).....	3%

**Biosol Forte does not contain any animal waste, animal by-products or any chemicals.**

Originally used as fish & cattle feed, Biosol is a food grade quality product.

#### Biosol Forte is:

- An organic fertilizer / soil amendment.
- 95-97% organically bound nitrogen source that is long lasting.
- 50% protein (amino acid) content.
- Contains chitin, which is a nitrogen source and a natural polymer.
  - It is an organic soil amendment that is used as a specific biological control agent to suppress pathogenic nematodes and soil-borne pathogens.
- Dry Mycelium is the vegetative part of fungus which promotes Mycorrhizae growth.
- Quality organic matter holds soil particles together, stabilizes soil, reducing the risk of erosion. This organic matter stores and supplies many nutrients needed for plant growth, soil humus production and minimizes soil compaction.
- Promotes nutrient cycling.

**MATERIAL COMPARISONS**

<b><u>Product Benefits</u></b>	<b><u>Biosol</u></b>	<b><u>Biosol Forte</u></b>	<b><u>Poultry Manure</u></b>	<b><u>Chemical Fertilizer</u></b>	<b><u>Composted Fert/ Mix</u></b>	<b><u>Compost</u></b>
Positively affects soil fertility	+++	+++	+	---	--	++
Positively affects soil structure	+++	+++	+	---	--	++
Positively affects soil microorganisms	+++	+++	+	---	--	++
Derived from animal waste or chemicals	No	No	Yes	Yes	Yes	Some
Derived from 100% plant product	Yes	Yes	No	No	No	Some
Provides beneficial bacteria & fungal biomass	+++	+++	---	---	---	---
Topsoil alternative	+++	+++	--	---	-	+++
High content of organic matter	+++	+++	+	---	--	+
Effect on humus content	+++	+++	-	--	-	+++
High content of chitin	+++	+++	---	---	---	---
Nutrient content	+	+	+	+++	+++	-
Risk of burning seed or existing vegetation	---	---	-	+++	+++	---
Risk of nitrogen leaching	---	---	+	+++	+++	---
Positively affects root system	+++	+++	+	-	-	+
Positive effects in arid conditions	+++	+++	+	---	--	++
Nutrients available in 2 <sup>nd</sup> growing season	+++	+++	-	---	--	++
High in salts	---	---	+	+++	+++	--
Risk of plant disease / pathogens	---	---	+	+++	+++	+
EPA approved for water sensitive areas	+++	+++	--	---	---	---
Field tested, proven for long term plant growth	+++	+++	--	---	---	+
USDA Bio Preferred Product	Yes	Yes	Some	No	No	No
Certified for organic crop production	Yes	No	Some	No	No	Some
Animal and child friendly	+++	+++	-	---	--	++
Retains 3-4 times its weight in water	+++	+++	--	---	--	+++

Very, Very Strong	+++	<b><u>Rating</u></b>	Very, Very Low	---
Very Strong	++		Very Low	--
Strong	+		Low	-

It is important to remember that not all materials are the same.  
 One application of Biosol Forte will promote growth for several years in non-irrigated situations.



A Division of  **SOWMAN** Construction Supply, Inc.

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