

Inside The Numbers

What Makes Biosol The Superior All Purpose Long-Lasting Organic Fertilizer

The Origin of Biosol Products

A beneficial fungal biomass is obtained by the fermentation of raw materials such as soybean meal, cottonseed meal, sucrose, glucose, trace elements and vitamins under constant sterile conditions. Biosol's "N-P-K" fertilizer numbers are different than other fertilizers because of the superior sources and quality of these organic nutrients.

Organic Matter > 75% - The Engine for Soil & Plant Health

Organic matter should not be confused with organic material or debris. Organic matter provides 90-95% of the nitrogen in unfertilized soils. Organic matter is a carbon (food) supply for beneficial soil microbes. Improving soil structure by increasing soil aggregation, in turn, promotes aeration, infiltration and percolation. Organic matter furnishes 30-70% of a soil's cation exchange capacity. The higher a soil's cation exchange capacity, the greater its ability to hold onto nutrients until they are needed by plants and microbes.

Nitrogen 7% (N) - The Fuel for Soil & Plants

Biosol's nitrogen comes from several unique nitrogen sources: fermented organic material, dry mycelium and chitin. This is what separates Biosol products from other organic fertilizers. The fermentation process of the raw plant material organically binds the nitrogen into a stable, high-quality, long-lasting nutrient. Dry mycelium, a basic element of the Biosol products, is another nitrogen source for plants and a vegetative source for mycorrhizae. It's an ideal natural nitrogen source for soil bacteria, fungus, plants and mycorrhizal fungi. This fungus enhances a plant's ability to maximize soil nutrients and water while helping the plant with environmental stress such as drought and transplant, leading to healthier, stronger plants.

Phosphorous 2% (P) - Oil for the Engine

Biosol's organic phosphorous comes from the fungal and bacterial biomass process and is a long-lasting phosphorous stable and available for plants. Inorganic phosphorous can be present in soils yet not available for plant use. Biosol's organic phosphorous is available when needed, and its utilization level is higher compared to mineral phosphorous.

Potassium 1% (K) - Oil for the Engine

This organically bound potassium is stable and long-lasting. Therefore, it will not leach into water or water systems. It is available for soils and plants when needed. This organic form of potassium comes from Biosol's fermented fungal and bacterial biomass, making Biosol unique from other fertilizers. It's a safe and effective form of potassium that can be used with all plants.

Organic Carbon > 35% - Spark Plug for the Engine

Organic carbon, bound in the organic substance of the Biosol products, is a stable and consistent source of carbon. Organic soil carbon is the basis of soil fertility. It is an energy source and trigger for nutrient availability. The carbon cycle is a fundamental part of life on earth.

Chitin - Organic Mechanic for Soil & Plants

Biosol has a high amount of chitin that comes from the exoskeleton of fungi. Chitin has a natural soil-amending property and is a nutrient influence for soils and plants. It is a hard structure that is a slow-release nitrogen source and retains moisture. The cellular structure of the chitin material stores and allows water to be utilized for plants in a better capacity. It also helps fight soil-based pathogens.

ROCKY MOUNTAIN BIO PRODUCTS

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View the chart below to see the product benefits of Rocky Mountain Bio Products' Biosol and Biosol Forte and why they are the superior all-purpose, long-lasting, organic fertilizer.

MATERIAL COMPARISONS						
Product Benefits	Biosol	Biosol Forte	Poultry Manure	Chemical Fertilizer	Composted Fert/Mix	Compost
Positively affects soil fertility & structure	+++	+++	+	---	--	++
Positively affects soil microorganisms	+++	+++	+	---	--	++
Derived from 100% plant product	Yes	Yes	No	No	No	Some
Provides beneficial bacteria & fungal biomass	+++	+++	---	---	---	---
High content of organic matter	+++	+++	+	---	--	+
Positive effect on humus content	+++	+++	-	--	-	+++
High content of chitin	+++	+++	---	---	---	---
Risk of burning seed or existing vegetation	---	---	-	+++	+++	---
Risk of nitrogen leaching	---	---	+	+++	+++	---
Positively affects root system	+++	+++	+	-	-	+
Nutrients available in 2nd growing season	+++	+++	-	---	--	++
Risk of plant disease / pathogens	---	---	+	+++	+++	+
EPA approved for water sensitive areas	+++	+++	--	---	---	---
Animal and child friendly	+++	+++	-	---	--	++
Retains 3-4 times its weight in water	+++	+++	--	---	--	+++

RATINGS

Very, Very Strong	+++	Very, Very Low	---
Very Strong	++	Very Low	--
Strong	+	Low	-