



BIOSOL MIX ®

ALL NATURAL ORGANIC FERTILIZER FOR RESTORATION AND RECLAMATION

When your restoration and reclamation goals include long-term vegetative growth, use BIOSOL MIX to maximize your success of revegetation in disturbed soils with low humus content. Bio-organic BIOSOL MIX provides important nutrients to sustain plant growth over multiple seasons and improves on-site growing conditions by re-establishing bio-activity in the soil. BIOSOL MIX will provide a slow, continuous nitrogen release pattern over time.

BENEFITS

Slow release of the organically bound nitrogen provides consistent supply of this nutrient to the plants. There is a positive effect on the formation of humus, root mass, mycorrhizal fungi and other microbial organisms. These interactions result in far lower concentrations of nitrate in soil solutions than is the case with the use of mineral fertilizers.

DIRECTIONS FOR USE

BIOSOL MIX is dried, pelletized, and bagged in 55 lb. recyclable (#4) bags for convenient transportation, storage and application. BIOSOL MIX can be used during and after installation of seeds and plant materials. BIOSOL MIX will not burn vegetation. BIOSOL MIX can be dry broadcast or applied by hydroseeder with no appreciable differences in results. BIOSOL MIX should always be applied topically and may be applied at any time except over snow. For best results, BIOSOL MIX should be watered in where possible. *BIOSOL MIX may be used in similar applications as BIOSOL with the exception of Organic Farming.* The application rates listed below may be adjusted to fit special soil or nutrient requirements.

APPLICATIONS

Road Cut Revegetation /Mining Reclamation
Follow-up application (2nd year)

RATES by weight per year

800-1,800 lbs. per acre, primary fertilization
600-1,000 lbs. per acre, secondary fertilization

Lawns & Playing Fields*
Golf Course Fairways *

33 lbs. per 1,000 sq.ft; / 1,500-2,000 lbs per acre/year
2,000-4,000 lbs. per acre/year

Ornamental Trees & Shrubs*
Viticulture

44 lbs. per 1,000 sq. ft. / 2,000 lbs per acre/year
600-900 lbs. per acre

Meadows, Pastures

800-1,000 lbs. per acre

*Where turf grows nearly year around, consider using the higher rates

BIOSOL MIX®

GENERAL DESCRIPTION

MANUFACTURE:

During the manufacture of various antibiotics, enzymes, proteins, etc., a nutrient broth is extracted from the active ingredients. The broth then undergoes a second fermentation of 20-24 hours in which the dissolved nutrients are bound in a bacterial biomass. The biomass is then separated with decanters and bentonite is added. The mass is then dried at 100-130° C for approximately 4-6 hours. Then it is mixed with a 50% fungal biomass (see Biosol general description, please note that potassium-magnesia is not added to Biosol Mix). Finally, the mixture is granulated and placed into 55 (25 kg) recyclable plastic bags.

Biosol Mix is sterilized and free of weed seeds.

COMPOSITION:

94% fungal and bacterial biomass, 6% water

NUTRIENT RATIO:

N-P-K = 7 - 2 - 3

Specifications:

Nitrogen (total).....	>7.0%
Nitrogen (water soluble).....	<0.5%
Available Phosphoric Acid (P2O5).....	2.0%
Soluble Potash (K2O).....	3.0%
PH..Level.....	approximately 5.4

Heavy Metal Contents:

Copper (Cu).....	mg/kg of DS	11.80ppm
Iron (Fe).....	mg/kg of DS	1.865ppm
Nickel (Ni).....	mg/kg of DS	5.250ppm
Chromium (Cr).....	mg/kg of DS	6.000ppm
Lead (Pb).....	mg/kg of DS	2.250ppm
Cadmium (Cd).....	mg/kg of DS	.092ppm
Zinc.....	mg/kg of DS	65.0ppm

Please note: The heavy metal contents are within the tolerance limits for animal feed.

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