Profile®
Solutions for your Environment™

TriGanics
Biotic Soil Media

GREEN DESIGN ENGINEERING™
EARTH-FRIENDLY SOLUTIONS FOR SUSTAINABLE RESULTS™

Description

TriGanics Biotic Soil Media™ (BSM™) is designed as an alternative to topsoil to accelerate development of depleted soils/substrates with low organic matter, low nutrient levels and limited biological activity. This Engineered Soil Media™ (ESM™) helps improve soils for vegetative establishment and more effective erosion control. TriGanics is non-toxic with bark and wood fibers that have been phyto-sanitized to eliminate potential weed seeds and pathogens - prior to the introduction of soil building components.

Recommended Applications

- Development of Soils with Low Organic Matter (< 5%)
- Rapid Establishment and Sustained Growth of Vegetation
- Replacement of Costly or Difficult to Obtain Topsoil
- Replacement of Compost, Peat, Manure and Other Sources of Organic Material
- Typically Installed Beneath Hydraulically-applied and Rolled Erosion Control Products (HECPs and RECPs) as Growing Media.

Soil Building and Revegetation

Mix seed and specified Prescriptive Agronomic Formulations at recommended rates in approved hydraulic seeding/mulching equipment when water has reached approximately 1/3 of the working capacity. Add TriGanics Biotic Soil Media at a rate of 100 pounds per 100 gallons of water (45 kg / 379 L) on hydraulic equipment with gear or positive displacement pumps and 75 pounds per 100 gallons of water(34 kg / 379 L) on centrifugal pumps while agitating; add fertilizer when the tank is approximately 3/4 full. Apply over properly prepared surfaces that are deemed geotechnically stable. Confirm specific material loading rates with equipment manufacturer.

Erosion Control Solution

Apply TriGanics as directed above being sure to include all Prescriptive Agronomic Formulations, fertilizer and seed at their recommended rates. Apply EcoFlex™ HP-FGM™, EcoMatrix™ EFM™, or RECP over TriGanics as directed by manufacturer's recommendation. Follow all manufacturer's product selection guidelines or go to www.ProfilePS3.com for assistance.

Technical Data

Physical Properties*	Test Method	Units	Typical Value
Organic Material	ASTM D586	%	> 90
Mass/Unit Area	ASTM D6566[1]	g/m^2 (oz/yd^2)	392 (11.6)
Water Holding Capacity	ASTM D7367	%	> 500
pH	ASTM D1293	n/a	6.0 ± 1.0
Material Color	Observed	n/a	Brown
Environmental Properties*	**Test Method**	**Units**	**Typical Value**
Ecotoxicity	EPA 2021.0	%	48-hr LC_{50} > 100%
Product Composition			**Typical Value**
Thermally Processed Bark and Wood Fibers[2] (within a pressurized vessel)			94%
Proprietary blend of Polysaccharide Polymers, Biochar, Seaweed Extract, Humic Acid and Endomycorrhizae			6%
Moisture Content			12%

* When uniformly applied at a rate of 3,500 pounds per acre (3,900 kilograms/hectare) under laboratory conditions. 1. ASTM test methods developed for Rolled Erosion Control Products that have been modified to accommodate Hydraulic Erosion Control Products. 2. Heated to a temperature greater than 380 degrees Fahrenheit (193 degrees Celsius) for 5 minutes at a pressure greater than 50 psi (345 kPa) in order to be Thermally Refined™/Processed and to achieve phyto-sanitization.

Packaging Data

Properties	Test Method	Units	Nominal Value
Bag Weight	Scale	kg (lb)	22.7 (50)
Bags per Pallet	Observed	#	40

UV and weather-resistant plastic bags. Pallets are weather-proof stretch wrapped with UV resistant pallet cover.