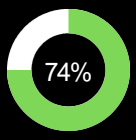
Produced from pine residues superheated to 900 °C for a pathogen-free renewable amendment

BioVermiculite™ is an engineered biochar soil amendment designed to deliver excellent performance as a sustainable alternative to mined vermiculite. Its higher free air space improves air and water movement in soil, while increasing water-holding capacity and natural potassium and calcium nutrients. With a balanced Ca:Mg ratio of 3.1 BioVermiculite™ fosters stronger growth than the lower 1.1 ratio found in mined Vermiculite.

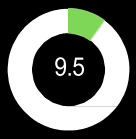
BIO-VERMICULITE SUSTAINABLE

Measured Properties: BioVermiculite vs Vermiculite



Free Air Space

Water Holding Capacity



pH

Potassium

Benefits

Engineered to enhance soil performance with a sustainable alternative to vermiculite

Quality substrate
Lightweight, does not degrade, pathogen free

Enhanced drainage
Uniform particle size for exceptional drainage and reduced surface moisture evaporation

Drought tolerance
Improved water holding capacity for greater drought resilience, supporting plant survival, and reducing nutrient leaching

Nutrient composition
Contains potassium, calcium, and magnesium, supporting shoot and root biomass establishment

Reduces plant stress
Reduces the salinity of the soil media blend mitigating plant stress

Optimal pH balance
Alkaline pH reduces need for limestone when using sphagnum peat

Available Nutrients

(Ammonium Bicarbonate / DTPA)

	Vermiculite	BioVermiculite
Potassium, ppm	456	5089
Calcium ppm	290	2999
Magnesium ppm	2945	431
Calcium/Magnesium (meq)	1.1	3.1
Vermiculite vs BioVermiculite		

Our Mission

Sustainable amendments drive adoption when they outperform incumbents at a lower cost. We engineered BioVermiculite™ so that choosing the sustainable option is also the best agronomic and economic decision.

info@biovermiculite.com

SPECIFICATIONS

PROPERTIES - MEDIUM GRADE

Property	Value
Bulk Density	290 pounds/cubic yard
Particle Size	Greater than 85% 1-4 mm
Moisture	30 weight percent
pH	9.5
Carbon	85 percent (dry basis)
Free Air Space	28 volume percent
Water Holding Capacity	125 gallons/cubic yard

BioVermiculite™
APPLICATION GUIDANCE

Home Garden	Spread two cubic yards per 1000 square feet, tilled six inches into the soil. Prepare two to three weeks prior to planting for maximum result
Transplants	Dig a hole 1.5 to 2x wider than your plants root ball and to the depth of the ball. Place the backfill in a bucket and mix the soil with BioVermiculite™ with the recommended dosage. Place the transplant into the hole so that plant crown is at the surface and not completely buried. Shovel the backfill mixture into the hole and pack firmly. **Annual vegetables** = 1 cup per plant **Large, fruited crops** (tomato, peppers) = 1 – 2 cups per plant **Woody perennials / trees** = ½ to 1 gallon per plant
Containers	1 gallon pot = ½ to 1 cup 3-gallon pot = 5 to 10 cups 5-gallon pot = 0.6 to 1.25 gallons 10-gallon pot = 1.25 to 2.5 gallon 20-gallon pot = 2.5 to 5 gallons
Raised Beds	Spread ½ to 1 inch layer of BioVermiculite™ on top and mix/till into top six inches. Prepare two to three weeks prior to planting for maximum result

PACKAGING, WEIGHT & PRICING

Packaging	48” x 48” x 60” 2 cubic yard supersack per pallet, 52 pallets per truck
Weight	650 pounds with pallet and bags
Pricing	Competitively priced, email for quote based on quantity and location

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