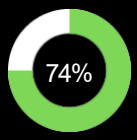
Produced from pine residues superheated to 900 °C for a pathogen-free renewable growing media component

BioVermiculite™ is an engineered biochar growing media component designed to deliver excellent performance as a sustainable alternative to mined vermiculite. Its higher free air space improves air and water movement in growing media, 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.

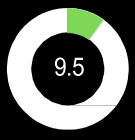
BIO-VERMICULITE SUSTAINABLE

Measured Properties: BioVermiculite vs Vermiculite



Free Air Space

Water Holding Capacity



pH

Potassium

Benefits

Engineered to enhance growing media 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 growing media blend by promoting drainage

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

Measured 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

Naturally occurring constituents remaining after thermal conversion. Not a guaranteed analysis.

Our Mission

Sustainable growing media 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

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

For commercial growing media and container horticulture use only. Not intended for in-ground soil application

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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