



Premium Volcanic Ash
Silicon for Turf and Sod
GRANULE



STRENGTHEN YOUR TURF FROM ROOTS TO SHOOTS WITH MONTANAGROW SILICON

For over half a century the turfgrass industry has been using bio-active silicon to strengthen and improve the appearance of turfgrass, increase drought resistance, and reduce abiotic and biotic stresses.

MontanaGrow helps lower the costs of watering (water, labor & electricity), greatly improves cellular structure and essential nutrient uptake from roots to shoots, reduces the impacts of stress factors which improves the economics for turfgrass and golf course managers.

MontanaGrow has a near neutral pH, is safe to handle, and waters nicely into the lawn canopy without burning turf. MontanaGrow is all natural, good for the environment, and safe for use in all applications.

SILICON BENEFITS FOR TURFGRASS

As a high silicon accumulator turfgrass responds positively to silicon and increases:

- Water Retention
- Photosynthesis
- Disease Resistance
- Leaf Blade Rigidity
- Drought and Salt Tolerance
- Turf Cell Wall Strength
- Photosynthesis
- Nitrogen and Phosphate Availability
- Abiotic and Biotic Stress Resistance
- Frost Resistance

ABIOTIC STRESS RESISTANCE

Turf is constantly exposed to seasonal changes and combinations of environmental factors (abiotic) stresses. MontanaGrow offers improved plant structural integrity and increased photosynthetic activity while promoting balanced nutrient availability and transportation.

BIOTIC STRESS RESISTANCE

MontanaGrow strengthens cell walls, which slows the spread of biotic stresses. Silicon helps plant defense responses, resulting in improved resistance to insects and increased disease suppression. A great pesticide-fungicide alternative for golf course superintendents that improves the environment.

HELPS CONSERVE WATER

MontanaGrow is highly absorbent so plants need less water which saves operators money. MontanaGrow is polymerized as a gel on the surface of grasses acting as a shield against abiotic stresses. This function also slows transpiration, which in turn decreases salt toxicity.



CONTACT

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Revitalize Soil Texture
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NATURAL SOURCE OF SILICON

AAPCO lists volcanic ash as a natural source of nutrients and beneficial substances including silicon.

MontanaGrow is mined from a deposit of silicon rich, non-crystalline volcanic ash formed by an ancient pyroclastic flow over 30 million years ago.

- Amorphous Volcanic Ash
- 0.13% Soluble Silicon (Si)
- Needed Beneficial Nutrients
- Unique source of Trace and Ultra Trace Elements for optimum turf growth.

EASY TO USE

MontanaGrow Granule is most effective when broadcast 2-3 lbs per 1,000 sq ft. once a year, or in the spring and fall for optimal results.

MontanaGrow Granules are available in a Greens Grade/100 SGN and Fairway Grade/240 SGN, allowing for convenient calibration, blending, and application with existing nutrient regiments.

Blend MontanaGrow with other fertilizers for easy one pass application and help the environment by preventing runoff and leaching of nutrients. The average bulk density of MontanaGrow Granules is approximately 62 /cu.ft.

CHEMICAL ANALYSIS

Total Available Silicon (SiO₂)	76%
Other Beneficial Nutrients	
Potassium (K ₂ O)	5.00%
Iron (Fe ₂ O ₃)	1.00%
Calcium (CaO)	0.40%
Magnesium (MgO)	0.20%
Manganese (MnO)	0.02%
Molybdenum (Mo)	0.02%
* Minimum Guaranteed analysis	

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MontanaGrow is derived entirely from Volcanic Ash that is crushed to a -120 Mesh and then granulated. Available in 2,000 lb totes and 50lb bags.



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