



**MagmaHume™ is a unique combination of Monty's proprietary activated humics and mineral rich basalt, designed to fortify soil and plants**

**What is MagmaHume?** MagmaHume is a unique combination of Monty's proprietary activated humics and mineral rich basalt, designed to fortify soil and plants. It is a unique dry pellet containing activated humic substances, key organically chelated nutrients (Ca, Mn, Mg, Fe, Co), and Silica (Si) for plant fortification.

**What are the benefits of MagmaHume?** a) The nutrients found in MagmaHume fortify the plant by: Enhancing photosynthesis, aiding enzyme production, catalyzing key plant processes, and supporting plant strength. b) It improves overall soil health by: Reducing comp-action, enhancing micronutrient uptake, catalyzing microbial activity, enhancing breakdown of plant residue, and improving soil-moisture retention. c) It is flexible and compatible by: Blending with dry agriculture inputs. d) It is OMRI Listed and approved for organic applications.

**What makes MagmaHume innovative and unique?** a) It contains Monty's unique, activated humic substances. These proprietary humic acids have demonstrated consistent success over decades of use on many crops and soil types. Successful results include measurable soil health properties, nutrient efficiency improvement, healthier plants, increased crop quality, and ultimately higher yields. b) Optimized efficiency. The basalt used in MagmaHume is sized to maximize surface area interaction between the activated humic substances and the basalt. Allowing more surface area for the humic substances to work provides a higher rate of mineral conversion into plant-available forms. c) Soil and plant fortification. MagmaHume is uniquely formulated to fortify the soil and plants improving key soil health properties and feeding the plant with strengthening nutrients.

**What are organically chelated nutrients?** The activated humic substances in MagmaHume increase the amount of soluble and plant available Ca, Mg, Mn, Fe, Co and Si. As these nutrients interact with the activated humic substances, they are organically chelated, preventing them from being tied up in the soil.

**What are the benefits of Silica?** Silica is accumulated at high levels in tissues of almost every plant species. Silica plays an important role on metabolic, physiologic, and structural components of plants. Silica increases resistance to both biotic and abiotic stressors. Studies have shown an increase in plant resistance to insects and diseases and plant lodging. Silica accumulation reduces plant water loss through transpiration and increases tolerance to drought. Silica interacts with magnesium and increases chlorophyll levels and leaf metabolism, two important components of photosynthesis.

**Can I blend MagmaHume with other dry fertilizers?** Yes, MagmaHume is compatible with dry fertilizers of similar granule size (SGN).

**What are best application methods?** For row crops, hemp and specialty crops grown outdoors: Blend with other dry fertilizers for a single pass application. For indoor growing: Blend with soil mixtures.

**Can I use MagmaHume in organic growing?** Yes, MagmaHume is OMRI Listed and approved for organic application.

**What are the best soil types to use MagmaHume?** MagmaHume is formulated for all soil types.

**Does basalt contain harmful salt or increase salt content in your soil?** No, basalt is not salt. It is rich in plant beneficial nutrients and 46 trace elements.

**What is the ROI when applying MagmaHume?** While farmers face many factors that can impact overall crop performance, initial studies show a positive return on investment. Across four states and two years, (2019 and 2020) average ROI from corn trials was \$49.56/Acre. Positive ROI on soybean in 2020 resulted in an increase of \$45.36/Acre compared to the control.

**Where can I buy MagmaHume?** Please contact your Monty's representative or call 1-800-978-6342.

