

COMMERCIAL MAGNESIUM SULFATE

GUARANTEED ANALYSIS

MAGNESIUM (Mg)9.8%

9.8% WATER SOLUBLE MAGNESIUM (Mg)

SULFUR (S)13.0%

13.0% COMBINED SULFUR

DERIVED FROM: MAGNESIUM SULFATE

VPS Commercial Magnesium Sulfate is designed to enhance plant health and productivity through its highly soluble nutrient solution. It delivers essential magnesium for chlorophyll synthesis, crucial for photosynthesis, ensuring plants efficiently assimilate CO₂ and optimize their shoot-root ratio for increased biomass and secondary metabolite production during flowering stages. VPS sulfates can buffer pH changes in rootzones, promoting a balanced rootzone ionic equilibrium and nutrient use efficiency. Formulated as small-particle crystals, it dissolves completely, preventing precipitation in stock tanks and ensuring no negative ionic interactions and a stable stock solution. This nutrient solution supports enzyme and antioxidant production, contributes to plant vigor, and is versatile for integration into various feeding systems including soil, soilless, and hydroponic setups.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.html>

NET WEIGHT:

5.0 LBS (2.27 KG)

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Stock Solution Guide & Feed Rates:

1. VPS Commercial Magnesium Sulfate stocking rate is
2 lb : 1 Gal Water
2. Fill stock solution vessel with water
3. Weigh out VPS Magnesium Sulfate for Stock
4. Slowly add in fertilizer while agitating Stock Tank
6. Ensure all Magnesium Sulfate is dissolved and check pH reading, solution pH should be 5.2-6.5
7. Stock Solutions should be made to replace every 5-9 days

Stock Solution Rates	
Stock Water (gal)	Magnesium Sulfate (lb)
1	2
5	10
10	20
25	50
50	100

Rates are in gm or mL per Gallon. If using stock solutions use mL if hand batching use gm.	Vegetative Phase			Flower Phase		
	Rooting Clones	Week 1	Weeks 2-3+	Weeks 1-3	Weeks 4-6	Weeks 7+
VPS Commercial Silicon	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL
VPS Commercial Bloom (2-26-41)	1.5g - 12 mL	2.0g - 16 mL	2.5g - 21mL	3.3g - 27mL	3.3g - 27mL	3.5g - 29mL
VPS Calcium Nitrate	2.0g - 8 mL	3.0g - 12mL	3.5g - 14mL	4.0g - 17mL	3.3g - 15mL	2.75g - 12mL
VPS Magnesium Sulfate	1.5g - 6 mL	2.0g - 10 mL	2.5g - 10mL	2.5g - 11mL	2.5g - 11mL	3.3g - 13 mL
Est. Expected EC	1.3	1.8	2.2	2.5	2.4	2.4
Recommended pH Range	5.7 - 6.2 pH					

Hand Batching Use Rates	Vegetative Phase			Flowering Phase		
	Rooting Clones	Week 1	Weeks 2-3+	Weeks 1-3	Weeks 4-6	Weeks 7+
VPS Commercial Silicon	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL
VPS Commercial Bloom (2-26-41)	1.5 g	2 g	2.5 g	3.3 g	3.3 g	3.5 g
VPS Calcium Nitrate	2.0 g	3 g	3.5	4.0 g	3.3 g	2.75 g
VPS Magnesium Sulfate	1.5 g	2 g	2.5 g	2.5 g	2.5 g	3.3 g
Est. Expected EC	1.3	1.8	2.2	2.5	2.4	2.4
Recommended pH Range	5.7 - 6.2 pH					

For Maximum solubility, maintain a pH of 5.6-6.4 in batch solutions during mixing; add VPS pH down after VPS Commercial 2-26-41 to maintain pH in range. EC/PPM Data are estimates, ranges \pm 0.3 EC are acceptable. Rates are per gallon of water and based on optimized growth conditions in inert media (Stonewool/Coco Coir). Fertilizer rates may be adjusted to suit crop and/or environmental conditions.

THIS PRODUCT IS INTENDED AS A SUPPLEMENT TO A REGULAR FERTILIZATION PROGRAM AND MAY NOT BY ITSELF PROVIDE ALL THE NUTRIENTS NORMALLY REQUIRED BY CROPS OR OTHER INTENDED PLANTS.



GUARANTEED BY:
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