



KMS™

Solution Grade Potassium Magnesium Sulfate

KMS™ delivers a balanced pH-neutral nutrient package in a fully water-soluble format. It contains 21% potassium, 11% magnesium and 22% sulfur which are immediately plant-available and crop-safe. Finely ground to minus 325 mesh, it's designed for use in fertigation systems and ground spray equipment. KMS can be applied when Western crops need it most and potassium demand spikes.

CONTACT INFORMATION

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FORMULATED FOR WESTERN SOILS: Bolsters potassium and magnesium levels to meet crop demands — especially for high-value tree and vine crops.



PLANT AVAILABLE NUTRIENTS: The potassium, magnesium, and sulfur in KMS are in the sulfate form, meaning they are immediately available to plants.



EASY ON SENSITIVE CROPS: The low chloride content of KMS makes it a great fit for crops that are sensitive yet need magnesium.



DOES NOT AFFECT SOIL pH: KMS is neutral in pH when applied to the soil, and therefore it does not contribute to additional soil acidity or alkalinity.



BALANCED FERTILIZATION: Supplies a perfect balance of three essential nutrients in a water-soluble form containing 21% potassium, 11% magnesium and 22% sulfur.



ALL NATURAL: KMS is a naturally occurring nutrient-rich mineral. Because it is 100% natural, KMS boasts the added benefit of being listed for use in organic crop production.

Diamond K KMS™ – Solution Grade Potassium Magnesium Sulfate

Chemical Composition

Component	Typical%	Range
Potassium Oxide (K2O)	21.7%	21.5% -21.7%
Potassium (K)	18.2%	
Sodium (Na)	0.7%	
Calcium (Ca)	0.1%	
Magnesium (Mg)	11.4%	11.20% -11.6%
Sulfur (S)	22.4%	22.3% - 22.7%
Chloride (Cl)	1.5%	0.8% -1.6%
Water Insoluble	0.4%	
Moisture (H2O)	0.05%	0.04% -0.155



Solution Grade Potassium Magnesium

Diamond K KMS is engineered for Western agriculture because it addresses multiple nutrient challenges common to highly irrigated soils.

Application

KMS is designed for fertigation through drip, sprinkler or pivot irrigation systems. The product is finely ground allowing it to dissolve uniformly and be injected into irrigation systems. Diamond K offers specialized solution-grade applicators that can be easily added to any irrigation system to deliver KMS.

Soil-Based Recommendations

Application rates depend on individual farm conditions. Especially important is cat exchange capacity (CEC) and existing nutrient levels. Each farm has different per-acre recommendations based on CEC and nutrient levels in both soil and water.

Timing Considerations

KMS should be applied during critical growth stages like fruit development and sizing when potassium demands peaks.

This timing strategy helps avoid potassium fixation and ensure nutrients are available during peak crop demand periods.

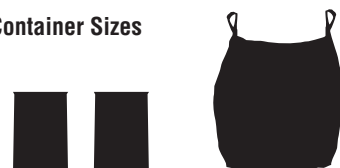
Product Characteristics

KMS is pH-neutral when applied to soil and does not contribute to soil acidity or alkalinity. Its sulfate form adds initial root growth and promotes seed production.

Guaranteed Analysis

Potassium Oxide (K2O)	21.5%
Magnesium (Mg)	10.8%
Sulfur (S)	22.0%

Container Sizes



Available in 50 lbs. bags and 2,000 lbs.bags

Frequently Asked Questions

What is KMS? KMS is a natural potassium magnesium sulfate fertilizer mined from langbeninite deposits that is ground finely and highly water soluble. It contains three essential plant nutrients in a single product — potassium, magnesium and sulfur in highly available sulfate forms.

Why is KMS ideal for western soils?

Western soils frequently lack potassium and magnesium — particularly in sandy low-CEC soils prone to nutrient leaching.

Why choose water-soluble vs. granular?

Water-soluble KMS allows precision nutrient delivery for faster plant response during key phases of crop development

Is KMS Chloride Free? KMS delivers potassium without chloride helping protect yield, fruit quality and soil health for sensitive crops.

Which Crops Benefit? Chloride-sensitive crops such as trees and vines, citrus, vegetables and high-value specialty crops.

Compatibility? KMS is compatible with many common fertigation inputs. Always perform a jar test before tank mixing. Avoid combining with incompatible calcium products in concentrated solutions.

