



 (Titan Biotech Ltd. Group)

G-1, 636, RIICO Industrial Area, Chopanki, Bhiwadi-301019 (Raj.)
CIN : U33110RJ2011PLC037007 | E-mail : sales1@peptechbio.com

Product Specification

POTASSIUM SCHOENITE (KMS)

CF 001

Chemical Formula: $K_2SO_4 \cdot 2MgSO_4$

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F.Wt.: 415 g/mol

Potassium Schoenite is a double Sulfate of potassium & Magnesium. It is composed of 23% Potassium Oxide and 11% Magnesium Oxide and Sulphur 15%.

It is made by physical extraction method or by direct removing impurities either from salt lake bittern or solid potassium – magnesium salt mine.

Potassium Schoenite is a unique source of plant nutrition since three essential nutrients are naturally combined in to one mineral. It provides a readily available supply of Potassium, Magnesium and Sulfur to growing plants in an ideal ratio. It has an advantage of having all nutrient contained within a single particle, which helps provide a uniform distribution of nutrients when it is spread in the field.

Potash (K_2O) - It is known as the quality nutrient. It promotes healthy root systems, increases plant vigor and resistance to disease and cold. It is also essential in sugar and starch formation, and the movement of nutrients through plants.

Magnesium (Mg) - It is the central element of the chlorophyll molecule, the pigment molecule responsible for absorbing sunlight during photosynthesis. It acts as both an enzyme activator and a constituent of many enzymes. Providing Magnesium and Potassium in the proper balance, Potassium Schoenite helps in increasing plant strength and builds resistance to winter kill, drying, insect attack and spray damage.

Sulfur (S) – It helps build proteins in plants and is a key component of many unique traits. It puts the “green & leafy” into crops like spinach, while giving garlic and asparagus their distinctive flavors and improves the quality of wheat. Sulfur deficiencies are of particular concern as sulfur dioxide emission-reduction programs cause less sulfur to be returned to the soil via atmosphere. Potassium Schoenite provides an adequate supply of sulfur for healthy crop production. Because it is in the sulfate form, it aids initial root growth which is important in rapidly growing crops and promotes seed production and vigorous plant growth.

Potassium Schoenite is readily water soluble and immediately available to plants. It has a neutral pH, and does not contribute to soil acidity or alkalinity. This makes it differ from other common sources of magnesium (such as dolomite) which will increase soil pH and from elemental sulfur or ammonium sulfate which will lower the soil pH.

It is effective on all soil types, irrespective of pH. Usually, it is useful for all crops for faster & healthy growth.

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BENEFITS:

Resists Leaching: Unlike other nutrient sources, it is 100 percent water soluble. Mesh size of Potassium Schoenite is in between 200-250 µm for fertigation or spray application. The solubility rate depends on its soluble chemical nature and its particle size. So, it dissolves slowly, resisting rapid leaching from the soil.

Essential Chloride-free: It has low salt index and is virtually chloride-free. So, it is frequently used in situations where a fertilizer free of Chlorine is desirable. It is thus an ideal K, Mg and S source for Chloride and salt-sensitive crops such as fruits, vegetables, grapevines, hops, potatoes, sunflowers, sugarcanes, tobacco and forest trees.

Provides Balance Of Nutrients: The deficiency of any essential nutrients limits crop yields & crop quality, even when all other nutrients are present in adequate amounts. It supplies K, Mg and S in a balanced proportion that fits the nutrient needs of many crops.

Neutral Soil pH: Regardless of application rate, it does not change soil pH because it is a neutral salt.

Increases Profit Per Acre: Higher crop production can be measured in yield as it increase the grain fill, colour, weight, firmness, size and general appearance that exponentially increase the value and profitability of any given crop.

Environmental Friendly: It is eco-friendly, as recognized as safe. It has no restrictions for environmental or nutritional use when used at typical agronomic rates.

STANDARD SPECIFICATION:

PHYSICAL PARAMETERS

SL.NO.	PRODUCT PARAMETERS	SPECIFICATION
1.	Appearance	White crystalline powder.
2.	Solubility (2% Soln. at 25°C)	Soluble in water.
3.	Clarity	Clear Solution, without precipitation.

CHEMICAL PARAMETERS

SL.NO.	PRODUCT PARAMETERS	SPECIFICATION
1.	pH (2% Soln. at 25°C)	6.5-7.5
2.	Potash (K ₂ O)	23%
3.	Magnesium (MgO)	11%
4.	Sulfur (SO ₃)	15%
5.	Specific Gravity (g/cm)	2.81-2.85
6.	Moisture (at 105°C)	NMT-2%
7.	Sodium (as NaCl) On Dry Basis	NMT-0.5%
8.	Calcium (Ca) Content	NMT-0.5
9.	Chlorine Content	NMT-3%
10.	Assay	NLT-97%



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DIRECTION OF USES:

Apply by spray method and in adequate amount of water that will provide complete coverage of the plants. Use of a non-ionic wetting agent may improve spray coverage of certain hard to wet plants.

Potassium Schoenite can be included in a regular spray program on crops and compatibility with other spray materials.

The rate of application will depend on the crop, stage of growth, and severity of deficiency. The maximum recommended rates are for mature, full-sized plants. Reduce the rates proportionately when spraying smaller plants.

Potassium Schoenite may be used on all types of crops including Rice, Wheat, Vegetables, Beetroot, Banana, Pomegranate, Grapes, Cardamom, Tree Crops including Forest Tree, Salt-Intolerant Crops like – Fruits, Hops, Potato, Tomato, Sunflowers, Sugarcanes, Tobacco and many more.

EFFICACY:

Potassium, Magnesium and Sulphur are continually removed from the soil by higher yielding crops and in the case of Sulfur and Magnesium, often are not replaced by many today's high analysis fertilizers.

Severe to moderate deficiencies of K, Mg and S are present in nearly every major crop producing area. Heavy cropping practices, erosion and leaching all contribute to shortages.

Potassium Schoenite provides three nutrients in the proper balance, helping to ensure that nutrition is not a limiting factor in achieving highest performance.

RECOMMENDED DOSAGES:

Apply Potassium Schoenite 5-8 gm per liter of water during fruiting, bolling, growth and pod development stage of plants. The application may be repeated twice or more times through the growing season as per nutritional requirement.

Std Packing : 25 Kg, HDPE Drum.

Best Before : 36 Months.

Storage : Hygroscopic in nature. Store in a cool & dry place.