

# K-MAG BRIEFS™

Brought to you by IMC Global — Producers of Quality Crop Nutrients

## For High-Yielding, High-Quality Tobacco

*An excellent 3-in-1 source of K, Mg and S*

*All nutrients are in the readily-available, water-soluble sulfate form*

*Does not affect soil pH*

Tobacco is a demanding crop, requiring a steady supply of readily available nutrients to fuel its tremendous growth potential. Yet, it also is sensitive to fertilizer burn associated with high chloride levels. Therefore, delivering a proper balance of nutrients without adding chloride is essential for top crop performance.

A product of mineral earth extracted from deep below the New Mexico soil surface, K-Mag is a naturally occurring, low chloride source of potassium (21-22% K<sub>2</sub>O), magnesium (10.5-11% Mg) and sulfur (21-22% S) essential nutrients for tobacco production. All the nutrients in K-Mag are in the readily-available, water-soluble sulfate form.

**Each nutrient in K-Mag plays a critical role in tobacco production:**

#### *Potassium (K)*

Tobacco removes K at higher rates than most other crops. K fertilization plays a critical role in maintaining productivity by facilitating root growth, building protein and activating enzymes. K also enhances the tobacco plant's resistance to disease important for a crop susceptible to fungal and viral diseases.

#### *Magnesium (Mg)*

Mg deficiencies can drastically reduce tobacco yield. As the heart of the chlorophyll molecule, Mg is necessary for photosynthesis to take place. However, high rates of applied K interfere with absorption of Mg. Therefore, it is very important that a proper balance of these nutrients is supplied to avoid K-induced Mg deficiencies.

#### *Sulfur (S)*

As a component of three different amino acids, S is fundamental to protein formation. S deficiencies can stunt growth and lead to poor yields.

Years of traditional N-P-K fertilization programs, often lacking in S, have led to increasing deficiencies of this nutrient worldwide.

#### **Effect of Fertilizer Formula on Tobacco Yield and Value**

Treatment	% Mg in Leaf	Yield (lb/A)	Gross Return (\$/A)
No Mg added	0.14	1875	2788
MgO	0.16	1954	2922
K-Mag	0.26	2051	3057

Tobacco readily responds to Mg fertilization, particularly when water soluble sources, such as K-Mag, are applied. K-Mag provides Mg, along with K and S, in a form that is immediately available to plant roots.

#### **Summary of K-Mag Benefits**

*K-Mag is a premium fertilizer choice that supplies critical nutrients, like Mg and S, often overlooked by traditional N-P-K programs.*

*Unlike other fertilizers, K-Mag is virtually 100% water-soluble, so it is immediately available to crops. Yet, K-Mag dissolves slowly, thus releasing nutrients as the plants develop.*

*K-Mag eliminates any chance of fertilizer burn from its nutrients since its unique traits include low chloride levels and a low salt index.*

*As a neutral salt, K-Mag boosts yields without decreasing soil pH.*

*Typical broadcast rates are 150-300 lb/A, but soil analyses should direct usage. Additional K may be required.*

**If your crop needs a boost in yield and quality, it may be time to incorporate the benefits of K-Mag into your fertilization program. Contact us today to learn more about K-Mag.**

