

K-MAG BRIEFS™

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

For High-Yielding, High-Quality Corn

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

Low salt index

Corn is a demanding crop. High levels of nutrients are crucial for maximum productivity. K-Mag, also known as langbeinite, provides a unique blend of nutrients necessary for a top quality yield.

A product of mineral earth extracted from deep below the New Mexico soil surface, K-Mag is a naturally-occurring source of potassium (21-22% K₂O), magnesium (10.5-11% Mg) and sulfur (21-22% S) — essential nutrients for corn production. All the nutrients in K-Mag are in the highly available, water-soluble sulfate form.

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

Potassium (K)

High corn yields require high amounts of applied K, particularly during early stand development and just prior to pollination. At these times, absorption rates can reach 10 pounds per acre per day. Second only to nitrogen (N) in plant requirements, K is a key component of both drought tolerance and photosynthesis. In fact, photosynthesis rates in K-stressed corn leaves may be reduced by up to 95%. As the primary nutrient behind developing root systems, K also is crucial for timely development and crop quality. K deficiencies often result in weak stalks and lodging.

Magnesium (Mg)

Without Mg, photosynthesis is impossible. As rates of photosynthesis decline, so do quality and yield. Mg remains the center of many complex nutrient relations.

While Mg promotes phosphorus (P) absorption, high K rates can actually inhibit plant uptake of Mg. Using K-Mag in a fertilizer program will help ensure these essential nutrients are supplied in the appropriate balance.

Sulfur (S)

S not only is a key element in proteins, it also proves vital to vitamin synthesis in plants' important determinants of crop quality. Deficiencies of this nutrient are increasing worldwide, largely because of the use of high-analysis fertilizers that do not contain S. Applications of S in Nebraska have been shown to increase yields and net returns.

Summary of Benefits

K-Mag is a premium fertilizer choice that in addition to potassium, supplies other essential nutrients, like Mg and S, often overlooked by traditional N-P-K programs. Sulfur may even improve disease resistance.

K-Mag is virtually 100% water-soluble and is immediately available to corn roots. Yet, granular K-Mag dissolves slowly.

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.

