KORN-KALI®+B: SUPPORTING SUSTAINABLE OIL PALM NUTRITION THROUGH BALANCED POTASSIUM, MAGNESIUM, SULPHUR AND BORON SUPPLY FOR YIELD OPTIMIZATION

Oil palm is a highly productive crop with a substantial demand for nutrients. To sustain healthy growth and maximize yield potential, an adequate supply of potassium, magnesium, sulphur and boron is essential. However, maintaining nutrient balance can be challenging due to declining soil fertility, adverse weather conditions, and the continuous removal of nutrients through harvested fresh fruit bunches (FFB).

Korn-KALI+B was developed to address this challenge by supplying four essential nutrients in a single granule. Produced from natural mineral sources, it combines fully water-soluble potassium chloride, ESTA Kieserite-derived magnesium and sulphur, together with added boron, to support efficient nutrient management and balanced oil palm nutrition.



K+S Group: Over a Century of Nutrient Expertise

However, providing four essential nutrients in a single granule requires more than a well-designed fertiliser. It requires reliable access to high-quality mineral resources and decades of expertise in plant nutrition. This is where K+S Group brings a distinct advantage.

Headquartered in Kassel, Germany, K+S Group has supported agricultural production for more than 130 years as one of the world's leading producers of potash and magnesium fertilisers. Through extensive mining expertise and continuous innovation, K+S develops nutrient solutions that help growers achieve balanced crop feeding while supporting yield optimization and sustainable production.

This expertise is reflected in the Korn-KALI product range. While Korn-KALI+B is relatively new to the oil palm sector in Southeast Asia, it is built upon the proven Korn-KALI formulation, which has been trusted by growers in the European market since 1954. By combining this heritage with the addition of boron, Korn-KALI+B offers a comprehensive nutrient solution for modern oil palm cultivation.

Korn-KALI®+B: Four Essential Nutrients in Every Granule

Korn-KALI+B is a naturally mined mineral fertiliser that supplies four essential nutrients in every granule. It contains 38 % K_2O, 6 % MgO and 12 % SO_3, together with 0.25 % boron. The boron is incorporated during granulation, ensuring a consistent supply of all four nutrients with every application.

Potassium (K) is required in the greatest quantity by oil palm and is directly linked to bunch production, bunch weight, FFB yield and high oil content. In many tropical regions, particularly on sandy and peat soils, potassium is readily lost through leaching due to high rainfall and limited soil reserves. Korn-KALI+B provides a reliable source of potassium to support sustained productivity.



Magnesium (Mg) is a key component of chlorophyll and plays a vital role in photosynthesis and sugar transport. Mg deficiency can reduce photosynthetic efficiency, impair palm growth and lower yield potential. In Korn-KALI+B, magnesium is supplied as ESTA Kieserite, a natural magnesium sulphate mineral that provides readily available magnesium and sulphur independent of soil pH with slow-release effect.

Sulphur (S) supports protein synthesis, increase nitrogen use efficiency, enzyme activity and overall plant growth. An adequate sulphur supply helps maintain vigorous growth and improves the efficient utilisation of other nutrients.

Boron (B) is essential for cell development and reproductive growth. Adequate born nutrition supports pollen viability, and therefore fruit set and bunch formation. Like potassium, Magnesium and sulphur, boron is easily leached and the most widespread micronutrient disorder in oil palms.

Benefits of Korn-KALI®+B for Oil Palm Plantations

Korn-KALI +B therefore helps secure a balanced supply of potassium, magnesium, sulphur and boron in oil palm plantations.



The uniform granules are easy to spread and dissolve gradually, ensuring a consistent nutrient supply throughout the crop cycle. The inclusion of boron within every granule improves homogenous nutrient distribution compared to separate boron applications, while its uniform particle size makes it highly suitable for bulk blending by reducing segregation and promoting more even nutrient delivery across the plantation. As a naturally mined mineral fertiliser, Korn-KALI+B is also approved, based on EU regulations, for use in organic farming systems across numerous markets.

Werra 2026: Securing Sustainable Potash Production

Korn-KALI+B already delivers the benefits of a naturally derived multi-nutrient fertiliser, helping plantations achieve balanced nutrition, efficient nutrient use and sustainable productivity. Looking ahead, K+S is further strengthening this commitment through the Werra 2060 project, which will reduce the CO_2 footprint of fertiliser production while securing the long-term supply of potassium and magnesium nutrients. In this way, every application of Korn-KALI+B supports not only productive oil palm cultivation, but also a more sustainable future for agriculture.

Sustainable yield and quality start with sustainable nutrition. Backed by over a century of expertise and a commitment to the future, Korn-KALI+B is the smart choice for today's oil palm plantations.



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