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New Product from Grupa Azoty's Polifoska Range

Grupa Azoty has expanded its product portfolio with a new multi-nutrient fertilizer. Produced in Police, POLIFOSKA Multi B guarantees a high concentration of water-soluble nutrients, ensuring rapid availability for crops. The fertilizer is enriched with boron and sulfur.

This is the latest addition from Grupa Azoty in recent months. Previous product launches included FOLIRES, POLIFOSKA Multi S, megAN, RSM BioShot, RSM OPTIMA, eNplus, and MultiCorn.

'Grupa Azoty has recently introduced several noteworthy products designed to help farmers achieve higher yields. The latest addition, POLIFOSKA Multi B, is intended for pre-sowing application across all agricultural, vegetable, orchard, and grassland crops. It is suitable for all soil types, regardless of pH and texture. It is particularly recommended for potassium-deficient soils, in conditions of low organic fertilization, and for potassium-loving crops such as sugar beets, potatoes, corn, and rapeseed, as well as for cereals when straw is harvested, **said Jacek Zaborowski, Director of the Agro Segment Corporate Trade Department at Grupa Azoty.**

Composition, Application, and Benefits

POLIFOSKA Multi B contains 5% nitrogen in ammonium form, 10% phosphorus soluble in neutral ammonium citrate and 9% soluble in water. Additionally, the fertilizer contains 30% potassium in the form of potassium chloride, 16% sulfur trioxide in the form of sulfate, 5% calcium, and 0.2% boron as a microelement.

Ammonium nitrogen is not easily leached from the soil and is steadily absorbed by plants, promoting phosphorus uptake and reducing excessive potassium absorption. The ammonium form is also safer for crops in the event of anticipated frosts. **Phosphorus in ammonium phosphate form** is the most readily assimilable form, effective even under water-deficit conditions in the soil.

The Crucial Roles of Potassium and Boron

Potassium plays a critical role in minimizing stress factors for crops. It regulates water management in plants, enhancing drought tolerance and activating enzymes necessary for proper growth. Additionally, potassium increases resistance to temperature extremes, fungal and bacterial diseases, reduces lodging, and improves nitrogen absorption and crop productivity. Proper potassium nutrition ensures good nitrogen availability from the start of vegetation, essential for rapid post-winter recovery.

Boron, as an essential microelement, promotes the proper development of generative organs (pistil, anther, pollen) and the youngest parts of shoots and roots. It positively influences flowering, water management,

respiration processes, and the proper development of conductive tissues (ensuring proper calcium distribution in the plant). It also increases resistance to lodging, pathogen attacks, and mechanical damage. Boron is vital for photosynthesis and respiration, nitrogen metabolism, hormonal balance, and carbohydrate transport. Its presence is particularly crucial in young tissues experiencing intensive growth and development. It also ensures the proper development of the root system.

The well-balanced composition of POLIFOSKA Multi B promotes root development and overall plant growth from the post-emergence stage. Applied pre-sowing, it enhances plant resistance to frost and drought, promotes full flowering, uniform ripening, and high-quality yields.

POLIFOSKA Multi B should be applied pre-sowing by evenly distributing and mixing it with the soil at a depth of 10-20 cm. For winter cereals and perennial crops, it can be top-dressed in early spring. It can be mixed directly before spreading with urea, ammonium nitrate, and ammonium sulfate or at any time with potassium chloride.