



**CATALYST
ROOT-FORCE**

OUT-PERFORMING ALL OTHER PHOSPHORUS INPUTS



For crops to reach their maximum potential, research has shown that plant-available Phosphorus is critical during the beginning stages of growth.

Most of the Phosphorus used in agriculture is inadequately protected from soil tie-up, leading to waste and reaction with Calcium, Aluminum, Iron and other positively-charged ions in the soil. The result is nutrient deficiency, lower crop yields and diminished quality.

Utilizing Carbon technology, **Crop Performance Catalyst Root-Force** protects Phosphorus from tie-up, while providing high-efficiency nutrition to plants when they most need it.

Plant-Available Nutrient For Superior Growth

Carbon Ortho Phosphate Technology prevents tie-up reactions from happening for an extended period of time, keeping the Phosphate in plant available form and ready for immediate uptake and utilization.

Low Inputs – High Return

Catalyst Root-Force is the most plant-available, lowest input Phosphorus source in the industry because of the Carbon-Complex Protection of the nutrient. Most of traditional Phosphorus inputs are lost to soil tie-up.

Protect The Nutrient – And The Environment

Catalyst Root-Force satisfies most phosphorus environmental regulations relating to pounds per acre, while still meeting or exceeding the plants' needs.



Crop Performance

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Unprotected



Catalyst Root-Force



Crop Performance Catalyst Root-Force protects the Phosphorus with carbon complexing, keeping the phosphorus free from soil tie-up and available to the grass all season.

Fixation reactions in soils may only allow a small fraction [10-15%] of the phosphorus in fertilizers to be taken up by plants in the year of application, according to the Florida Institute of Phosphate Research.

Catalyst Root-Force incorporates amino acids and carbon to protect negatively charged phosphorus molecules from forming insoluble bonds with other ions in the soil, and ensures plant-availability for sustained growth and greater plant strength.



Catalyst Root-Force Benefits

Highest availability phosphorus fertilizer

Ultra-Low application rates

Promotes quick, uniform emergence

Seed safe at recommended rates



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