

## Product Information

# CHALLENGE

## A high-phosphorous fertilizer

**CHALLENGE**, our award-winning product from Commodity Classic 2021-2024, combines KTPP (potassium-tri-poly phosphate) with organic acids and sequestering agents to enhance the uptake of phosphorus (P) and potassium (K). KTPP, a high-grade phosphate used as a chelating agent in other industries, consists of three ortho phosphates linked with potassium, making P more available for plant uptake. Adding nitrogen further boosts uptake and translocation.

CHALLENGE also contains high levels of lignosulfonic acids, which improve the absorption of CHALLENGE and other tank mix components. Lignons have a “metering” effect, helping plants absorb applied materials while reducing the harmful effects of many post-emergent chemicals.

The humic acid in CHALLENGE is 100% homogenized, ensuring complete solubility in tank mixes and increased uptake through soil applications. Humic acids sequester nutrients, enhancing their translocation into plants via roots and leaves.

Suitable for all crop types, CHALLENGE 8-32-5 can be applied through drip irrigation, soil application, pivots, foliar spray, and drones. With a neutral pH of 7, it serves as an effective soil and foliar fertilizer and excels as a starter fertilizer replacement.

## Winning results with CHALLENGE

- **National Corn Growers Association  
Winning Product  
2021, 2022, 2023, 2024**  
1st Place 2021 and 2022, North Carolina  
1st, 2nd and 3rd Place 2023 and 2024,  
North Carolina & Alabama
- **1st & 3rd Place Cotton Winner 2021**  
Northampton County, North Carolina
- **3rd Place Peanuts Winner 2021**  
Martin County, North Carolina



### CHALLENGE 8-32-5

“The root booster” is formulated to promote strong root development, enhance nutrient uptake, and improve crop quality. Its pH-neutral, versatile composition maximizes yield potential across various growing conditions.

<b>pH:</b>	7
<b>Weight per gallon</b>	11.9 lbs
<b>Guaranteed analysis</b>	
Nitrogen	8%
Phosphate	32.0%
Soluble Potash	5.0%
Zinc	0.05%

**Application rates:** The appropriate rate will vary by application type and crop. Speak to your local ICL representative for advice on rates and blending with a nitrogen source.

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*Attention: As circumstances can differ and as application of products is beyond our control, ICL cannot be held responsible for any negative results. With this publication, all previous given recommendations expire. Before a new rate, product or application method is used, a small scale trial is recommended.*