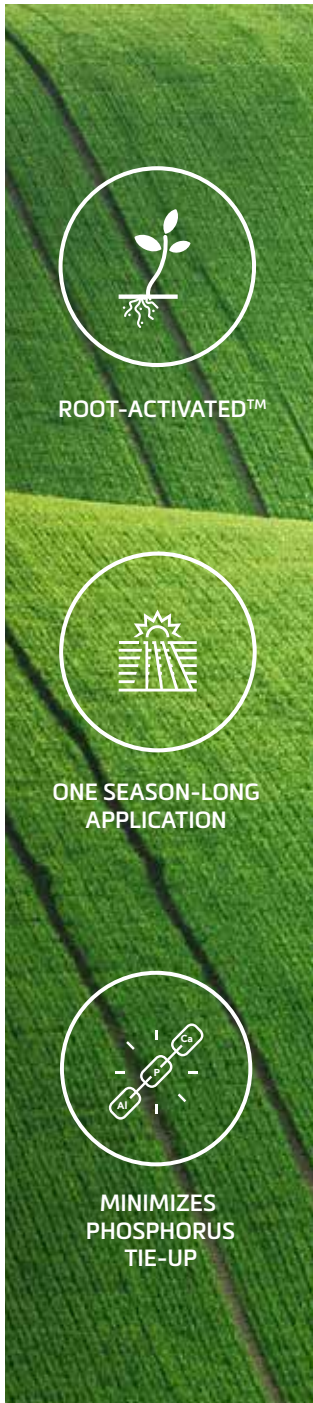




Root-Activated™ Fertilizer

Crystal Green® is the first Root-Activated™ fertilizer to offer phosphorus, with nitrogen and magnesium, in one continuous release granule. Its 100% plant-available formulation offers a season-long release of nutrients that minimizes tie-up and reduces the risk of leaching and runoff.



ROOT-ACTIVATED™



ONE SEASON-LONG
APPLICATION



MINIMIZES
PHOSPHORUS
TIE-UP

HOW CRYSTAL GREEN WORKS

Root-Activated™ Nutrient Technology

- ▶ Crystal Green employs a citrate soluble mode of action which means it releases nutrients in response to a plants organic acid production. This allows Crystal Green to gradually release nutrients into the soil solution when the plant needs it most.

Season-Long Plant Availability

- ▶ Continuous release provides plant-available nutrients all season long while minimizing nutrient tie-up, leaching, and runoff.

Consistent, Dependable Release

- ▶ Crystal Green's nutrient release is dependent on plant demand; not on coatings, soil temperatures, microbes, or pH.

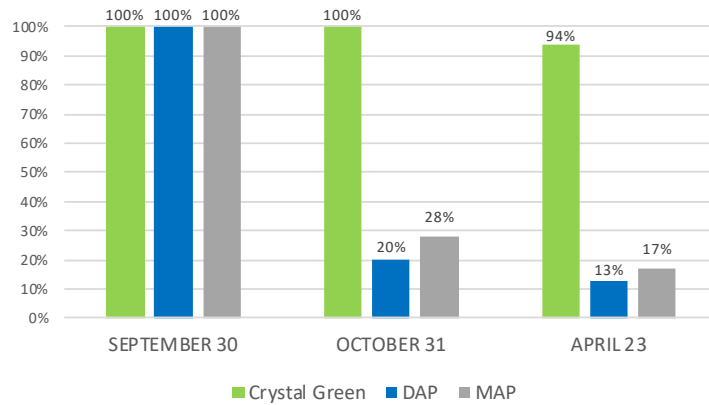
FEATURES + BENEFITS

- ▶ University proven, unique mode of action prevents tie-up of phosphorus in low and high pH soils
- ▶ High efficiency fall fertilizer
- ▶ Improves seed safety over MAP or DAP with 1/4 the salt index
- ▶ Complements MAP or DAP for season long phosphorus
- ▶ Derived from a sustainable and renewable source

UNIVERSITY PROVEN FOR FALL FERTILIZATION

Crystal Green vs. DAP and MAP

Bar graph indicates percentage of fall applied fertilizer remaining after six months



Source: NDSU Fall Fertilizer Study (2017-18)

BLENDING ATTRIBUTES

	90 SGN	150 SGN	300 SGN
Size in mm	0.9 mm	1.5 mm	3.0 mm
Bulk Density lbs per cubic foot	62	62	55
Angle of Repose	26.3	27.3	28.1
Granules per one pound	725,294	96,615	13,154
Prill Shape	Round	Round	Angular
Prill Color	White	White	White
Phosphate Form	Ortho	Ortho	Ortho
Packaging	2,000 pound totes or bulk	2,000 pound totes or bulk	2,000 pound totes or bulk

USING CRYSTAL GREEN FERTILIZER

Crystal Green (CG) is meant to replace 25% of the actual phosphorus (P) supplied by highly water soluble P sources such as MAP and DAP. Below are specific examples of how to incorporate CG into your P fertilizer program. In a physical blend, the ratio of MAP:CG becomes 62%:38% due to CG's lower P analysis. For more details or questions, please contact your Crystal Green representative found below.

Total Units of P for Crop	BLEND	
	Pounds of MAP per acre	Pounds of Crystal Green per acre
20	29	18
30	43	27
40	58	36
50	72	45
60	87	54
70	101	63
80	115	71
90	130	80
100	144	89
110	159	98
120	173	107

SALT INDEX

	DAP	MAP	S15	Crystal Green
Salt Index	29	27	21	7.7

Salt Index is based on the Jackson Method, current standard for North American Fertilizers.

GUARANTEED ANALYSIS

Total Nitrogen (N).....5%
 5% ammoniacal nitrogen
 Available Phosphorus (P₂O₅)28%
 Magnesium (Mg)10%

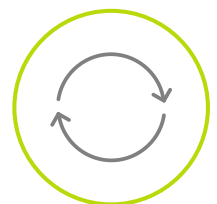
Derivation:
 Magnesium ammonium phosphate hexa-hydrate
 (MgNH₄PO₄•6H₂O)



DENSER
ROOT MASS



NUTRIENT
MANAGEMENT



ENVIRONMENTAL
STEWARDSHIP

Contact Your Crystal Green Representative

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 W ostara.com

