



OSTARA
CrystalGreen®

BUILD VIBRANT, HEALTHY TURF THAT HAS FASTER RECOVERY AND INCREASED STRESS TOLERANCE

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

HOW CRYSTAL GREEN WORKS

Crystal Green is Root-Activated™; as the roots release organic acids, such as citrates, Crystal Green responds with a healthy release of phosphorus to feed the plants. As plant demand decreases, nutrient release from Crystal Green is reduced; minimizing excess phosphorus in the soil and lowering the risk of tie-up, leaching, and runoff. Crystal Green also contains 10% magnesium, which is essential for capturing the sun's energy for photosynthesis, enhancing the natural, vibrant color of the turf.

“ I LIKE TO LOOK AT EVERYTHING I DO AS A
PIECE TO A PUZZLE. CRYSTAL GREEN IS A
CORE PIECE OF THE PUZZLE. ”

- JERAD MINNICK
Lead Advisor, Natural Grass Advisory Group™

DEEPER ROOTED TURF THAT STANDS UP TO ALL

Each granule of Crystal Green delivers phosphorus, plus nitrogen and magnesium for up to 30% more root length and density — the ultimate defense against seasonal stress and daily wear and tear.

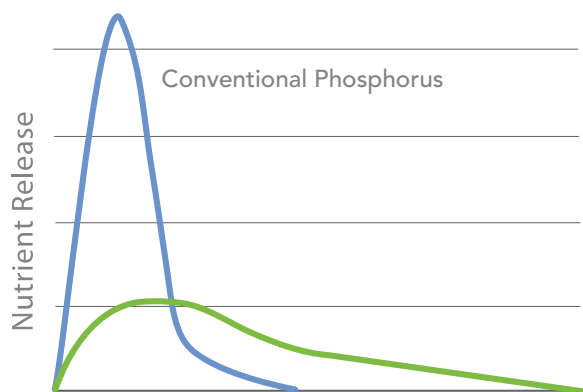


SEE THE DIFFERENCE WITH CRYSTAL GREEN

Crystal Green is a 99.6% pure crystalline granule phosphate fertilizer. Unlike conventional water soluble phosphate fertilizers, Crystal Green has continuous release capabilities; it lasts all season long and feeds turf on demand. This improves turf stand, increases stress and wear tolerance, and also facilitates winter survival and rapid spring green up.

NUTRIENT RELEASE CURVE

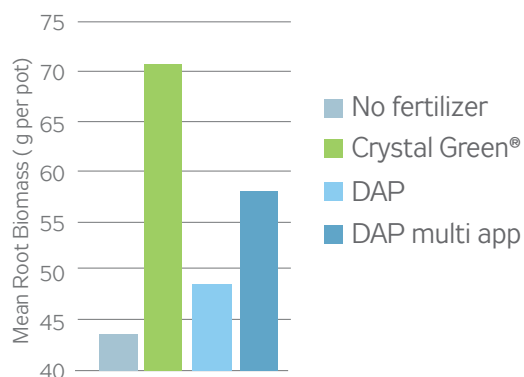
Crystal Green vs. Conventional Phosphorus



Source: Accelerated Nutrient Release Study, Applied Chemical Technologies (2012)

GET LONGER, STRONGER ROOTS

A study conducted by Cornell University investigated the effect of Crystal Green and DAP on the root mass of Kentucky bluegrass eight months after seeding.



The study compared a single application of Crystal Green at seeding (2 lbs P₂O₅ per 1000 sq. ft.) with a single application of DAP at seeding (2 lbs P₂O₅ per 1000 sq. ft.) and multiple applications of DAP over the course of the eight-month study (0.25 lbs P₂O₅ per 1000 sq. ft. per month).

The results showed that turf treated with a single application of Crystal Green had a root mass that was nearly **22% larger** than eight metered applications of DAP and approximately **45% larger** than a single application of DAP. Stronger roots means optimized nutrient uptake, improved stress recovery, and better stand.

PERFORMANCE & BENEFITS

- ▶ Denser root mass
- ▶ Faster recovery
- ▶ Increased stress tolerance
- ▶ Reduced risk of runoff and leaching
- ▶ Improved color and stand
- ▶ Rapid spring green up and regeneration

Crystal Green is recognized by: 

GUARANTEED ANALYSIS

Total Nitrogen (N)	5%
5% ammoniacal nitrogen	
Available Phosphorus (P ₂ O ₅)	28%
Magnesium (Mg)	10%

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

APPLICATION RECOMMENDATIONS

(Ideal rate depends on soil type, turf type and climate.)

Optimally applied during aerification as straight product or with sand. If applied outside of aerification, Crystal Green will still penetrate the canopy and have minimal mower pick-up.

Established Turf

- Rates from 1-4 lbs of Crystal Green / 1000 sq. ft.
- Higher rates may be necessary for high-traffic areas with high performance.
- Apply two times per year (spring and fall).

New Seeding

- Rates from 4-8 lbs of Crystal Green / 1000 sq. ft.
- For a nutrient boost upfront, provide 2/3 of the required P₂O₅ as Crystal Green, combined with 1/3 from a quick release P source.

Ostara Nutrient Division

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Crystal Green® is sustainably produced by:

