

A **SMARTER** SOURCE OF NITROGEN, A **SMARTER** WAY TO GROW.\*

**Smart fertility products. SMARTER WAYS TO GROW.**

**Only from Agrium Advanced Technologies**



For more information about ESN technology or to locate the field representative in your area, visit us at [SmartNitrogen.com](http://SmartNitrogen.com) or call 800-403-2861.

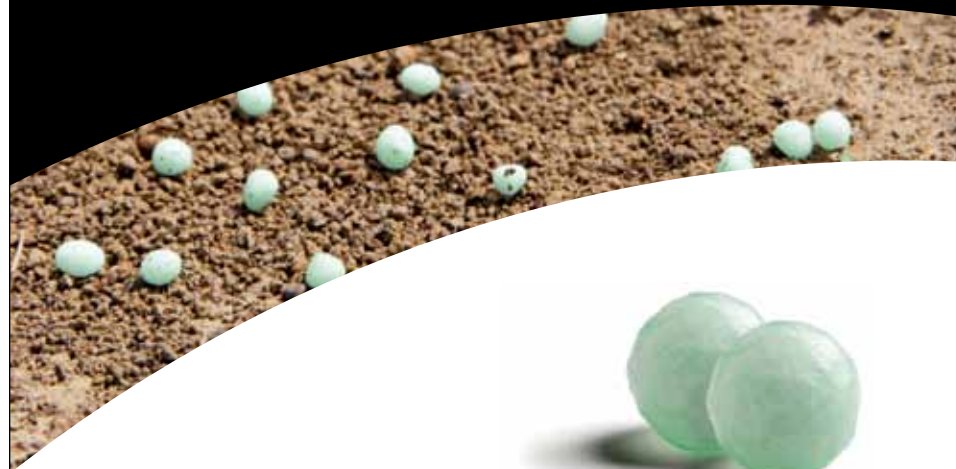


Agrium Advanced Technologies (AAT) is a strategic business unit of Agrium Inc. AAT produces and markets controlled-release nutrients, micronutrients and plant protection products for sale to the agricultural, professional turf and ornamental markets primarily in North America.

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# How ESN Technology Works



## Coated nitrogen granules

ESN technology uses a flexible, micro-thin polymer coating to encapsulate an N granule. The coating protects the N from loss mechanisms and releases nitrogen based on temperature and soil moisture. So your crops get N when they need it.

## What makes ESN so smart?

ESN technology provides season long nitrogen benefits for corn, cotton, canola, wheat, and potatoes.

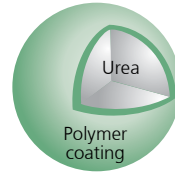
## Put Smart Nitrogen Technology To Work For You!

### Protecting your nitrogen investment with ESN®

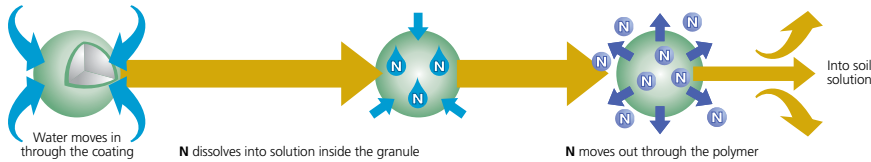
- Enhances nitrogen use efficiency
- Improves crop yield and quality
- Offers more seed safety than conventional N fertilizers
- Provides convenience through ease of use
- Protects your environment with reduced N loss

## Temperature controlled release of N

The unique polymer membrane allows water to diffuse into the granule, dissolving the N. The N becomes a water and urea solution, inside the polymer membrane.



The same conditions that favor plant growth and nutrient demand are the conditions that release N from the polymer coating: moisture and temperature. Once moisture has created the N solution inside the membrane, the solution moves through the membrane at a predictable rate. The rate is based on soil temperature and matches the N demand of the growing crop. It's a highly efficient source of nitrogen that protects your investment while providing consistent N for growing crops.



ESN is the only controlled release nitrogen designed for agriculture that delivers a significant return on investment through increased nitrogen efficiency.

