

# Honeywell Sulf-N<sup>®</sup> PRO Ammonium Sulfate



top to bottom nutrition

Honeywell Resins & Chemicals  
P.O. Box 1559  
Hopewell, VA 23860

Telephone: 804-541-9411  
Fax: 804-541-9418

Please visit us at:  
[www.honeywell.com/sulfnpro](http://www.honeywell.com/sulfnpro)

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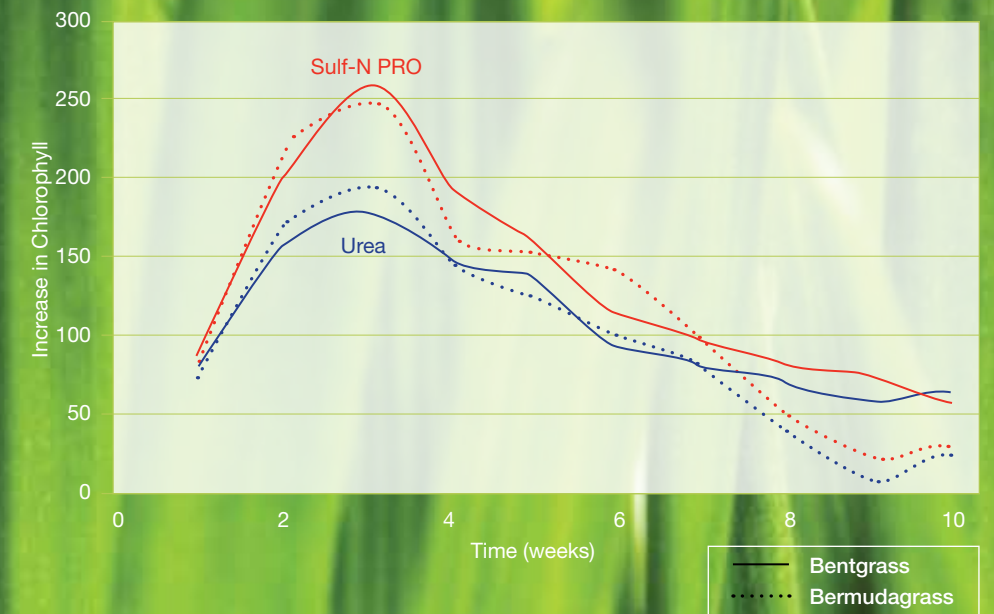
**Honeywell**

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Honeywell Sulf-N® PRO fertilizers deliver a fast and deep green with long-lasting color. From back yards to golf courses, it's a green that gets noticed and sets Honeywell Sulf-N PRO fertilizers over and above other soluble N sources.

### TURFGRASS COLOR RATINGS BERMUDAGRASS AND BENTGRASS

2.0 lb N/1000 ft<sup>2</sup>



## ammonium advantage

### Ammonium nitrogen makes the difference

**Honeywell Sulf-N PRO nitrogen is 100% ammonium-N. It's the preferred N form with these proven benefits.**

**Fast green-up:** Sulf-N PRO nitrogen is immediately available for root uptake, there is no waiting for mineralization.

**Deeper green:** Ammonium increases root uptake of phosphorus, iron and manganese for better nutrition and better color.

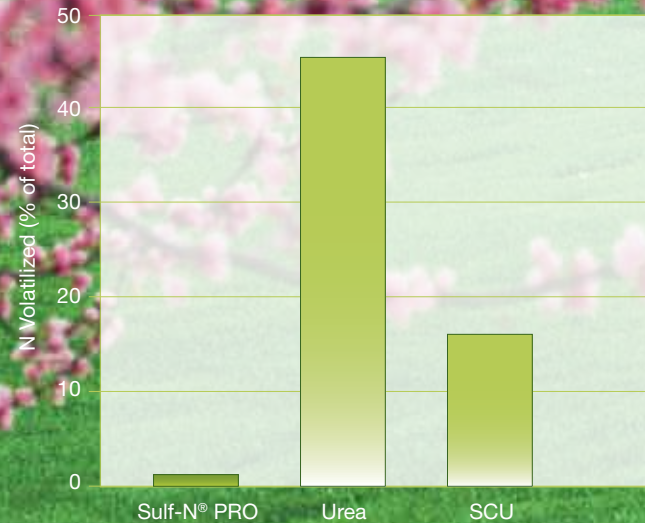
**Healthier roots:** Ammonium nitrogen preserves root mass and may suppress damaging turf diseases like summer patch, dollar spot, take-all patch and spring dead spot.

**Long-lasting color:** Ammonium nitrogen sustains a long-lasting, deeper green.

**Cost Effective:** Ammonium nitrogen is more efficient. Lower rates often perform as well as higher rates of other N fertilizers.

**VOLATILE N LOSS:  
TIFWAY BERMUDAGRASS**

3.0 lb N/1000 ft<sup>2</sup>



Honeywell Sulf-N<sup>®</sup> PRO fertilizers deliver fast green up thanks to 100% ammonium nitrogen. It is immediately available for root uptake and is less prone to volatilization loss compared to urea-based fertilizers. These features make Sulf-N PRO fertilizers ideal for spring application and whenever you want a quick green.

fast green up

**The hidden cost of urea**

**N loss from volatilization makes urea less efficient, especially in warm weather. Higher rates can compensate for N loss but increase risk of foliar burn, excessive flush growth and diminished root growth.**

**Sulf-N PRO fertilizers effectively resist N loss from volatilization, leaching and denitrification, so there is never any need to over-apply N.**

In early spring, apply up to 1.0 lb N/1000 ft<sup>2</sup> to stimulate green-up and minimize flush growth; preserve spring root mass, improve summer stress tolerance, and minimize need for heat-of-summer rescue treatments.

In late spring and early fall, apply up to 0.75 -1.0 lb N/1000 ft<sup>2</sup> together with slow-release N for fast green-up and extended N availability.

In summer, avoid applications on cool-season grasses under droughty conditions. Otherwise, rates up to 0.25 lb N/1000 ft<sup>2</sup> are recommended. On warm-season grasses, apply up to 1.0 lb N/1000 ft<sup>2</sup>.

In late fall, encourage root growth with up to 1.0 lb N/1000 ft<sup>2</sup> after turf growth slows or stops but lawn is still green.

For best results, apply to dry foliage so particles fall off leaf blades, then water in immediately (with at least 0.1 inch) after application. This is essential wherever traffic is anticipated.



Honeywell Sulf-N<sup>®</sup> PRO fertilizers create a healthier root environment and maintain root mass for a stronger turf foundation.

## a healthier root zone

### Top to bottom nutrition

Leaves send more energy to roots when nitrogen is taken up as ammonium.

Turfgrasses use less energy to assimilate nitrogen as ammonium, so there's more energy left over for root growth.

Absorption of ammonium nitrogen acidifies the surrounding root zone, which suppresses diseases like summerpatch and take-all patch.

An acid root zone increases uptake of phosphorus, iron and manganese.

### Disease suppression

**Research demonstrates that ammonium sulfate may suppress:**

Summer patch

Take-all patch

Spring dead spot

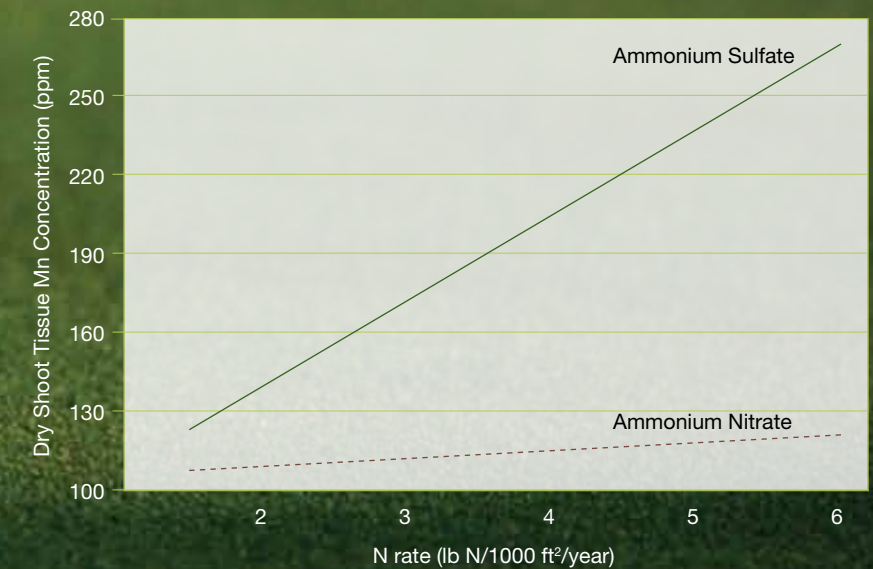
Bermudagrass decline

Dead spot

Dollar spot

Ammonium-N improves uptake of nitrogen, phosphorus, iron and manganese. Plants need sulfur to make chlorophyll. Honeywell Sulf-N® PRO fertilizers bring these two essential nutrients together in plant-preferred forms to deliver a deeper green than other quick-release N products.

### AMMONIUM EFFECT ON MN UPTAKE CREEPING BENTGRASS / ANNUAL BLUE GRASS PUTTING GREENS



## greener greens

### Golf course case study

In a Penn State study on creeping bentgrass/annual bluegrass greens, high ammonium nitrogen blends with Honeywell Sulf-N PRO ammonium sulfate increased dark-green color (DGCI) ratings compared to low ammonium, high-nitrate ratio blends.

### Golf course application options

#### On warm season species

Apply up to 1.0 lb N/1000 ft²/month. Mix with slow release N in summer months to minimize surge growth and maintain consistent color.

#### On cool season species

Limit rates to 0.15 lb N/1000 ft² per application in summer. Discontinue use during periods of drought stress.

In late spring/early fall – use rates < 0.25 lb N/1000 ft²

In early spring/late fall – use rates 0.25 – 1.25 lb N/1000 ft²

For best results, apply to dry foliage so particles fall off leaf blades, then water in immediately (with at least 0.1 inch) after application before allowing play to resume.

This is essential wherever traffic is anticipated.



The grass is always greener when you use Honeywell Sulf-N® PRO fertilizers. Learn more about efficient and economical Sulf-N PRO ammonium sulfate at [www.honeywell.com/sulfnpro](http://www.honeywell.com/sulfnpro).

## Honeywell Sulf-N® PRO turf products



21% N (100% as ammonium)  
24% S (100% as sulfate)

Unique formulation process maximizes uniformity and flowability; minimizes dust.

### Soluble (SGN < 100)

Dissolves rapidly in water.  
Soluble dedusting agent for clean and easy handling.  
Compatible with any liquid fertilizer program, including application through irrigation systems.  
Ideal for spoonfeeding.

### Micro (SGN 100)

Free-flowing, highly uniform.  
Use on greens and any closely managed turf.

### Mini (SGN 150)

Special screening maintains particle size uniformity index of 50 or better.  
Sized for direct application or as a blend ingredient.  
Anti-caking agent enhances product flow.  
Use on tees, fairways, sports turf and commercial lawn care.

### Granular (SGN 200+)

Free-flowing with high critical relative humidity and an anti-caking agent.  
Use on high-cut fairways, roughs, sports fields, lawns, parks, recreational areas and landscape plantings.