



# ProMag<sup>®</sup> 36

## Magnesium Supplement for Greens, Fairways, Lawns, Container & Specialty Crops

<b>DESCRIPTION</b>	ProMag <sup>®</sup> 36 is a unique non-burning combination of magnesium sources in dust free micro-prill form, to provide both immediate magnesium response and longer term magnesium availability in one product.	
<b>USES</b>	ProMag 36 is useful in a wide variety of applications including greens and fairways, specialty turf and garden requirements, and specialty ornamental and tropical plant needs. ProMag 36 can be applied directly to the treatment areas and is compatible when mixed with other nutrient sources.	
<b>GUARANTEED NUTRIENT ANALYSES</b>	Magnesium, (Mg) %	36.0
	Sulfur, (S) %	6.0
<b>PHYSICAL PROPERTIES (Typical)</b>	% Passing 10 mesh	95
	% Passing 40 mesh	10
	SGN	100
<b>RECOMMENDED RATE</b>	ProMag 36 should be used in conjunction with soil test and plant tissue analysis. See supplemental guide for additional recommendations.	
<b>PACKAGING</b>	Available in 50-lb polyethylene-lined, multi-walled bags and 2000-lb bulk sacks.	
<b>STORAGE</b>	Store in dry place. Excessive moisture may cause caking.	

#### NOTICE

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## Magnesium Supplement for Greens, Fairways, Lawns, Container & Specialty Crops

**DUAL SOURCE  
MAGNESIUM**

**MICRO-PRILLED**

**VERSATILE**

**PLANT & SOIL  
BENEFIT**

**RECOMMENDED  
USE**

ProMag<sup>®</sup> 36 is a unique non-burning combination of magnesium sulfate and magnesium oxide, providing both immediate and longer term magnesium availability in each granule.

ProMag 36 is micro-prilled to promote easy application and rapid canopy penetration of turf grasses used on golf course greens and fairways, lawns, and recreational areas.

ProMag 36 can be applied directly or blended with other plant food ingredients in a wide variety of formulations.

Magnesium, as provided by ProMag 36, is one of the most important building blocks of chlorophyll in green plants - the essential plant molecule to carry on photosynthesis. Magnesium is also associated with transfer reactions involving phosphate reactive groups. In addition, several plant enzyme activities also benefit from magnesium as supplied by ProMag 36.

In soils, magnesium from ProMag 36 functions to stabilize the base ion exchange, providing balance between calcium and potassium. If calcium or potassium are exceptionally high, magnesium uptake will be suppressed.

Soil test whenever possible. When a soil test is not available, use the following guidelines:

New turf - Broadcast 30-lbs/1000 sq. ft. prior to planting. Till into soil.

Established turf - Broadcast 10-20-lbs/1000 sq. ft./year plus amount needed to equalize base exchange.

Acidic soils - Apply 30-lbs/1000 sq. ft. Incorporate if possible. Split applications if necessary.

Golf course greens - New construction: incorporate 40-lbs/1000 sq. ft. into top 6 inches.

Existing greens: Aerify, apply at 10-20-lbs/1000 sq. ft., prior to top-dressing. At least two applications will be necessary on most greens.

Potting soil mixes - 5-10-lbs/cu. yd. in soilless mixes or to nutrient recommendations.

Citrus - Dry tree fertilizer: incorporate in any granular mix to deliver 150-400 -lbs/acre.

New plantings - At time of planting, incorporate at 2-4-lbs in the backfill.

Nursery soil mix - Incorporate thoroughly into soilless mixes at a rate of 5-10-lbs/cu. yd.

Ornamentals, vegetables, row crops - Bed preparation: 150-300-lbs/acre in band applications the width of the bed. Furrow additive - 35-lbs/acre into furrow slice.

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# ProMag<sup>®</sup> 36 at Brandermill Country Club

ProMag<sup>®</sup> 36 provides essential magnesium for golf green and turf nutrition in a unique granular combination of rapidly available magnesium from water soluble sources, plus slow release magnesium from citrate soluble sources.

At optimum CEC levels and balanced exchangeable magnesium levels, most USGA type greens will respond with significant root elongation, improved disease resistance and overall turf color and vitality.

ProMag 36 has been specifically formulated to build Cation Exchange Capacity (CEC) in low CEC soils as well as build and maintain exchangeable magnesium levels in low magnesium soils.

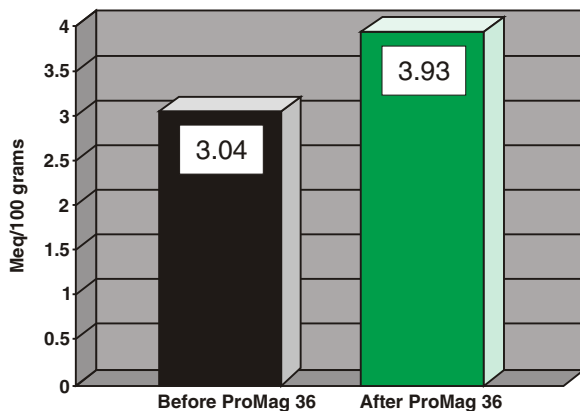
## ProMag 36 at Brandermill Country Club - Midlothian, Virginia\*

ProMag 36 was applied at Brandermill Country Club at eight pounds for 1,000 sq. ft. In conjunction with aeration and a recommended fertilization program.

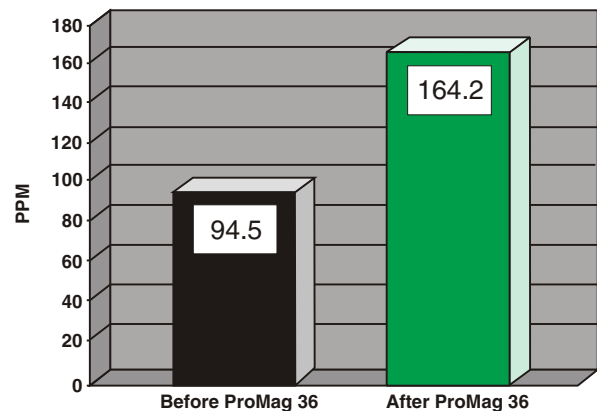
Soil samples were taken before ProMag 36 application in October and after application in October and after application four months later.

Results of the average of all greens are summarized in the graphs below.

**CATION EXCHANGE CAPACITY (CEC)**  
Average of Golf Greens 1-18



**EXCHANGEABLE MAGNESIUM**  
Average of Golf Greens 1-18



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**ProMag® 36**  
**at**  
**Brandermill Country Club**

*(Continued)*

All golf greens had a significant increase in exchangeable magnesium with an average increase of 69.7 ppm. The CEC increased dramatically as well - from 3.04 meq/100 grams to 3.93 for a 30% increase!

**CONCLUSION**

ProMag 36 is very effective in building both exchangeable soil magnesium and CEC. ProMag 36 provides both exchangeable and soluble magnesium to the soil for the best magnesium uptake.

\*Alan Slaughter  
Golf Course Superintendent  
Brandermill Country Club  
Midlothian, Virginia 23112

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