



# Premier HG Range

- \* Multi-phased nutrient release pattern to provide consistent availability
- \* Contains long-lasting Nitrogen and Potassium for optimum feeding
- \* Comprehensive trace element package
- \* Homogenous mini-granules for even distribution and coverage
- \* Major nutrients released for up to 6 months from one application
- \* A range of analyses for all seasons of the year
- \* For fine turf, sportsfields and amenity areas

## 22-3-15 +Trace Elements

A high analysis, controlled release fertilizer

At 35g/m<sup>2</sup> one treatment provides N:77.0 P:10.5 K:52.5 kg/ha

Period of use Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



## 12-3-24 +Mg +Trace Elements

An organo-mineral, controlled release fertilizer

At 35g/m<sup>2</sup> one treatment provides N:42.0 P:10.5 K:84.0 kg/ha

Period of use Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



## 3-3-32 +Trace Elements

A multi-source, high Potash fertilizer

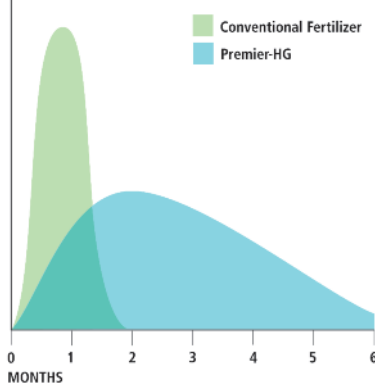
At 35g/m<sup>2</sup> one treatment provides N:10.5 P:10.5 K:112.0 kg/ha

Period of use Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec



Premier-HG fertilizers are all homogenous mini-granules (1-2mm) and not blends. Every granule contains the same amount of nutrients which ensures even growth and cover, preventing speckling effects which can occur with

TYPICAL NITROGEN RELEASE PATTERN  
Schematic Diagram



blended fertilizers. The granules break down very quickly so nutrients are available to the grass soon after application and there is reduced risk of scorch or mower pick-up.

There is more than one source of Nitrogen in Premier-HG fertilizers. Some provide an initial response immediately available to the plant, whilst other sources provide the Nitrogen over different time periods, so giving a multi-phased release over an approximate 6 month period following application.

### Slow Release Nitrogen

Premier-HG fertilizers not only contain conventional release Nitrogen to give an initial response, but also slow release Nitrogen in the form of Methylene Urea. This Nitrogen source is present in more than one form related to its chain length, and the rate of Nitrogen release is closely related to the chain length of each fraction. The longer the polymer chain length, the less soluble is the Nitrogen and the slower its release rate.

In Premier-HG there is a free Urea fraction but in addition three fractions of Methylene Urea with differing chain lengths:

*Urea fraction* - very soluble and available to the turf in a matter of days.

*Fraction 1* - CWSN (cold water soluble Nitrogen) containing un-reacted Urea and short chain Methylene Urea polymers, with the Nitrogen being available over a period of weeks.

*Fraction 2* - HWSN (hot water soluble Nitrogen) consisting of medium chain length polymers released more slowly over 2-3 months.

*Fraction 3* - HWIN (hot water insoluble Nitrogen) containing longer chain polymers where the Nitrogen is released over 4-6 months or even longer depending on temperature and microbial activity.

### Slow Release Potassium

As well as containing Potassium that provides a rapid availability, some is also complexed with Carbon to provide a slow release form, as well as having a bio-stimulation effect due to the organic component.

### Trace Elements

Premier-HG contains a comprehensive trace element package (Bo, Cu, Fe, Mn, Mo, Zn) to help achieve a healthy and strong sward.

ATA-GLANCE FEATURES		22-3-15	12-3-24	3-3-32
Nitrogen	Conventional	7.3%	6.0%	2.7%
	Slow release	14.7%	6.0%	0.3%
Phosphorus		3.0%	3.0%	3.0%
Potassium	Conventional	15.0%	15.3%	20.3%
	Slow release	-	8.7%	11.7%
Macro-nutrients	Magnesium	-	2.5%	-