



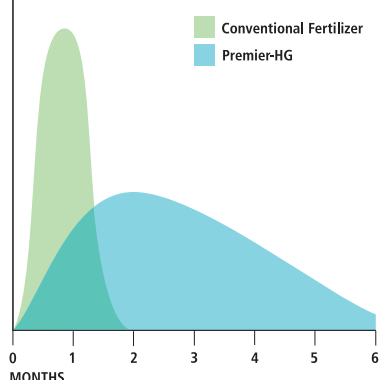
Premier-HG

A range of high quality, mini-granular, homogenous fertilizers providing multi-phased Nitrogen release for use on amenity turf

Premier-HG is a range of fertilizers formulated for use on all amenity turf areas, including golf greens, tees and fairways, tennis courts, bowling greens, sports pitches e.g. football and on high quality lawns.

The Premier-HG range 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 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.

TYPICAL NITROGEN RELEASE PATTERN Schematic Diagram



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 quickly available to the turf in a matter of days

Fraction 1 – CWSN (cold water soluble nitrogen) containing unreacted 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.

AT-A-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%	25.3%	20.3%
	Slow release	-	8.7%	11.7%
Macro-nutrients	Magnesium	-	2.5%	-

Multi-phased nutrient release pattern to provide consistent availability

Contains long-lasting nitrogen and potassium for optimum feeding

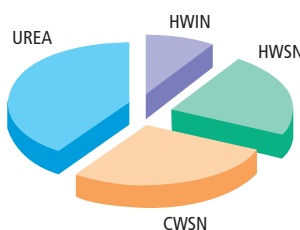
Contains a comprehensive trace element package to improve turf health

Homogenous mini-granules for even distribution and coverage

Major nutrients released for up to 6 months from one application

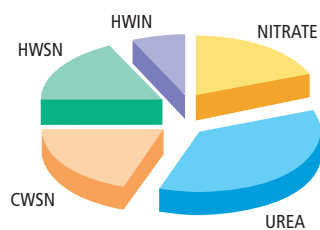
A range of analyses for all seasons of the year giving flexibility of use

Sources Of Nitrogen: Premier-HG 22-3-15



- CWSN = cold water soluble nitrogen
- HWSN = hot water soluble nitrogen
- HWIN = hot water insoluble nitrogen

Sources Of Nitrogen: Premier-HG 12-3-24



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

The Premier-HG range as well as containing potassium that provides a rapid availability, some of the potassium 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.

The Premier-HG Range

22-3-15

A high analysis, controlled release fertilizer.

At **35g/m²** one treatment provides **N 77.0 P 10.5 K 52.5 kg/ha**

USE PERIOD

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

12-3-24

An organo-mineral, controlled release fertilizer.

At **35g/m²** one treatment provides **N 42.0 P 10.5 K 84.0 kg/ha**

USE PERIOD

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

3-3-32

A multi-source, high potash fertilizer.

At **35g/m²** one treatment provides **N 10.5 P 10.5 K112.0kg/ha**

USE PERIOD

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC