



# GRONAMIC®

High quality  
organo-mineral fertilizers  
designed for all types of turf



# Consistent balanced nutrition

Gronamic is a new range of organo-mineral fertilizers from ICL. Each granule combines mineral and organic nutrient sources.

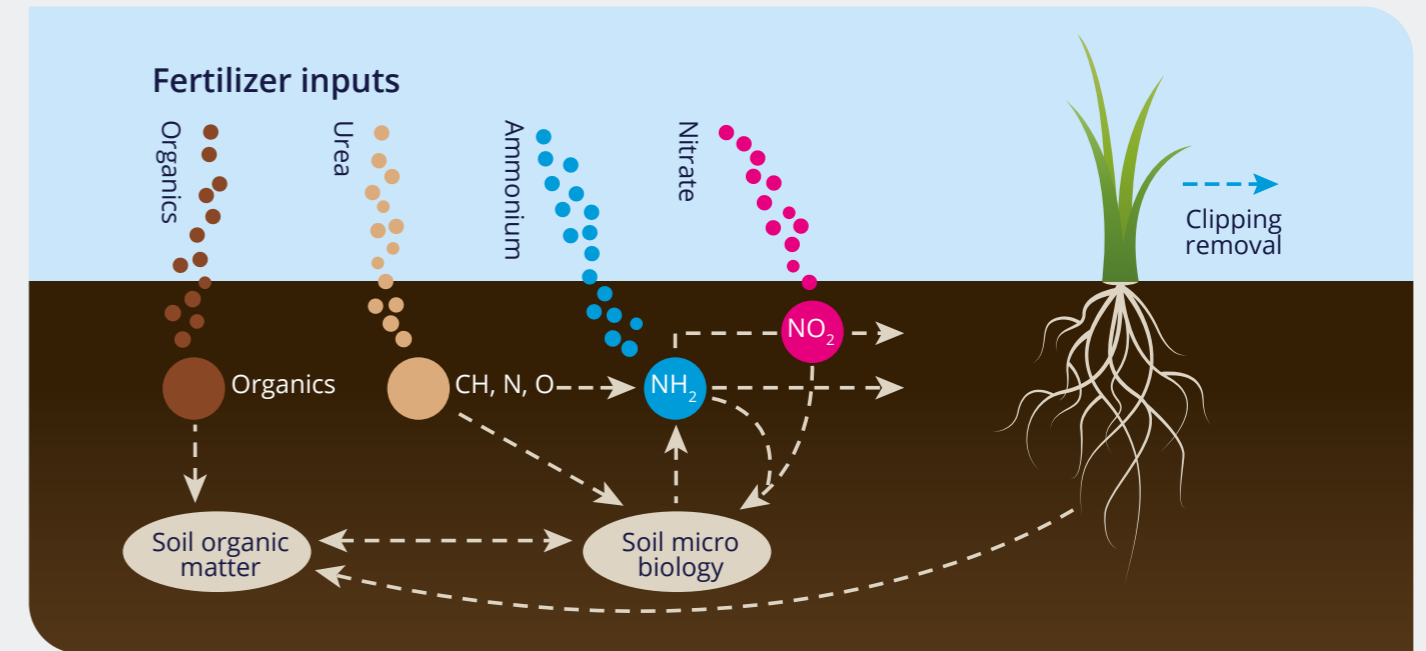
The granulation process produces consistent, uniform and dust-free products. This range allows you to incorporate all the benefits of organic sources of nutrition into your fertilizer programme without compromising on quality or reliability.

## Phased nitrogen release

Gronamic products contain multiple selected sources of nitrogen nutrition for phased nutrient release.



## Nitrogen cycle



### C:N ratio

The C:N ratio determines whether the organic nutrients can be easily converted to an available form for plant uptake.

### Will mineralisation or immobilisation take place?

At C:N < 20:1 mineralisation will occur  
At C:N > 30:1 immobilisation will occur

### N sources

#### Ammonium > Urea > Complexed organic N

As the Gronamic granule disperses into the turf, the growing turf plant will be supplied N initially from ammonium, then from urea and finally from the mineralised organic nitrogen.

#### Sustained nitrogen uptake from a single product

### Carbon to nitrogen ratio

#### Carbon to nitrogen ratio – plant available

The C:N ratio in all Gronamic products allows mineralisation of organic nutrients with no lock-up or immobilisation.

### Polyhalite inside



Each fertilizer\* combines the proven mineral fertilizer polyhalite (supplying Ca, Mg, K, S) plus organic nutrients from plant and/or animal sources.

#### Polyhalite (mineral) $K_2Ca_2Mg(SO_4)_4 \cdot 2(H_2O)$

**K** 14%  $K_2O$  as from potassium sulphate

**Mg** 6%  $MgO$  as from magnesium sulphate (3.6% Mg)

**Ca** 17%  $CaO$  as from calcium sulphate (12% Ca)

\*No polyhalite included in Allround

# GRONAMIC® MINI

High N

## High nitrogen levels for sustained growth

16-3-6+2MgO+0.5Fe  
(16-1.3-5+1.2Mg+0.5Fe)

Gronamic High N is designed to deliver sustained nutrition to the turf plant through the growing season. The supply of all key macronutrients and iron allows for a healthy plant, great turf colour and resilience from wear.

The balance of mineral and organic components provides the benefits from both approaches of turf nutrition. Supplies carbon to the soil/rootzone.

## Benefits

- Ideal for use in spring and summer
- High nitrogen levels for sustained growth
- Great granulation means low application rates are possible
- Combination of ammonium, urea and organic nitrogen sources for consistent growth response
- Polyhalite mineral included to supply CaO, MgO & K for healthy growth
- Plant-based organic component



## Product characteristics

Formulation type: **Mini-granule**  
 Technology: **Organo-mineral**  
 Granule size: **1-2 mm**  
 Pack size: **25 kg**  
 Pack coverage: **833 m<sup>2</sup>**  
 Granule dispersal: **Less than 4 days**  
 Longevity: **6-8 weeks**  
 Typical turf response: **3-7 days (depending on environmental factors)**

## Application information

Application rate: **30 g/m<sup>2</sup>**

## Application notes

- ✓ Apply to dry foliage
- ✓ Water in if no rain falls within 1-2 days after application
- ✓ Irrigation or rainfall will assist dispersion and minimize risk on close mown surfaces
- ✗ Avoid applications during frosty or drought conditions
- ✗ Delay cutting or grooming for 2 days after application to allow product dispersal
- ✗ Product contains iron so if spilt on pavement, concrete or decorative surfaces brush off immediately as there is risk of staining

## Recommended usage

- Greens ✓
- Greens Surrounds ✓
- Greens collars and approaches ✓
- Lawn Tennis ✓
- Tees ✓
- Fairways ✓
- Stadia pitches ✓
- Sports pitches ✓
- Outfields ✓
- Lawns ✓

## Spreader settings

Spreader	Slider plate	Smart Spread™	Spread width	Setting to deliver g/m <sup>2</sup>							
				20 g/m <sup>2</sup>	25 g/m <sup>2</sup>	30 g/m <sup>2</sup>	35 g/m <sup>2</sup>	40 g/m <sup>2</sup>	45 g/m <sup>2</sup>	50 g/m <sup>2</sup>	
ACCUPRO® One	Closed	-	2 m	Single pass		13	14	16	17		
				Double pass		9	10	11	12		
ACCUPRO® 360ST	-	G	4 m	Single pass	12 ½	14	15 ½	17 ½	19 ½	21 ½	24 ½
				Double pass	9	9 ½	10 ½	11 ½	12 ½	13	14

**Product name**  
oxide analysis  
(elemental analysis)

**Gronamic Mini High N**  
16-3-6+2MgO+0.5Fe  
(16-1.3-5+1.2Mg+0.5Fe)

### Product notes

Gronamic High N is designed for use through the main turf growing season.

### Recommended period of use

J F M A M J J A S O N D



# GRONAMIC® MINI

## High K

### Low nitrogen levels for controlled response

5-0-22+2MgO+0.5Fe  
(5-0-18.3+1.2Mg+Fe)

Gronamic Mini High K delivers sustained nutrition to the turf plant through the growing season and high K levels. The supply of all key macronutrients and iron allows for a healthy plant, great turf colour and resilience from wear.

The balance of mineral and organic components provides the benefits from both approaches of turf nutrition. Supplies carbon to the soil/rootzone.

### Benefits

- Ideal for spring and summer applications
- Low nitrogen levels for more controlled response
- High potassium to support the plant in periods of stress
- Great granulation means low application rates are possible
- Combination of ammonium, urea and organic nitrogen sources
- Polyhalite mineral included to supply CaO, MgO & K for healthy growth
- Plant-based organic component



### Product characteristics

Formulation type: **Mini-granule**  
 Technology: **Organo-mineral**  
 Granule size: **1-2 mm**  
 Pack size: **25 kg**  
 Pack coverage: **625-833 m<sup>2</sup>**  
 Granule dispersal: **Less than 4 days**  
 Longevity: **6-8 weeks**  
 Typical turf response: **3-7 days (depending on environmental factors)**

### Application information

Application rate: **30-40 g/m<sup>2</sup>**

### Application notes

- ✓ Apply to dry foliage
- ✓ Water in if no rain falls within 1-2 days after application
- ✓ Irrigation or rainfall will assist dispersion and minimize risk on close mown surfaces
- ✗ Avoid applications during frosty or drought conditions
- ✗ Delay cutting or grooming for 2 days after application to allow product dispersal
- ✗ Product contains iron so if spilt on pavement, concrete or decorative surfaces brush off immediately as there is risk of staining

### Recommended usage

- Greens ✓
- Greens Surrounds ✓
- Greens collars and approaches ✓
- Lawn Tennis ✓
- Tees ✓
- Fairways ✓
- Stadia pitches ✓
- Sports pitches ✓
- Outfields ✓
- Lawns ✓

### Spreader settings

Spreader	Slider plate	Smart Spread™	Spread width	Setting to deliver g/m <sup>2</sup>							
				20 g/m <sup>2</sup>	25 g/m <sup>2</sup>	30 g/m <sup>2</sup>	35 g/m <sup>2</sup>	40 g/m <sup>2</sup>	45 g/m <sup>2</sup>	50 g/m <sup>2</sup>	
ACCUPRO® One	Closed	-	2 m	Single pass		13	14	16	17		
				Double pass		9	10	11	12		
ACCUPRO® 360ST	-	G	4 m	Single pass	12 ½	14	15 ½	17 ½	19 ½	21 ½	24 ½
				Double pass	9	9 ½	10 ½	11 ½	12 ½	13	14

**Product name**  
oxide analysis  
(elemental analysis)

**Gronamic Mini High K**  
5-0-22+2MgO+0.5Fe  
(5-0-18.3+1.2Mg+Fe)

### Product notes

Ideal to use where lower N and higher K are required through the growing season.

### Recommended period of use

J F M A M J J A S O N D



# GRONAMIC® MINI

## 6-2-4

### Organic based fertiliser with unique, proven and sustainable ingredients

6-2-4  
(6-0.87-3.3)

Gronamic Golf 6-2-4 is designed to deliver a healthy natural turf response. It combines a unique blend of mineral and plant-based organic nutrition with a proven biostimulant. Formulated as a mini granule to be applied to the finest turf.

### Benefits

- Organo-mineral fertiliser
- The organic content is 100% plant based
- Contains SMX seaweed extract – a sustainably sourced seaweed concentrate
- Contains Struvite – recycled phosphate
- Contains Polyhalite – a natural mineral source of K, Ca and Mg
- Phased nitrogen release



### Product characteristics

Formulation type: **Mini-granule**  
 Technology: **Organo-mineral**  
 Granule size: **1-2 mm**  
 Pack size: **25 kg**  
 Pack coverage: **571-800 m<sup>2</sup>**  
 Granule dispersal: **Less than 4 days**  
 Longevity: **6-8 weeks**  
 Typical turf response: **3-7 days (depending on environmental factors)**

### Application information

Application rate: **25-35 g/m<sup>2</sup>**

### Application notes

- ✓ Apply to dry foliage
- ✓ Water in if no rain falls within 1-2 days after application
- ✓ Irrigation or rainfall will assist dispersion and minimize risk on close mown surfaces
- ✗ Avoid applications during frosty or drought conditions
- ✗ Delay cutting or grooming for 2 days after application to allow product dispersal
- ✗ Product contains iron so if spilt on pavement, concrete or decorative surfaces brush off immediately as there is risk of staining

### Recommended usage

- Greens ✓
- Greens Surrounds ✓
- Greens collars and approaches ✓
- Lawn Tennis ✓
- Tees ✓
- Fairways ✓
- Stadia pitches ✓
- Sports pitches ✓
- Outfields ✓
- Lawns ✓

### Spreader settings

Spreader	Slider plate	Smart Spread™	Spread width	Setting to deliver g/m <sup>2</sup>							
				20 g/m <sup>2</sup>	25 g/m <sup>2</sup>	30 g/m <sup>2</sup>	35 g/m <sup>2</sup>	40 g/m <sup>2</sup>	45 g/m <sup>2</sup>	50 g/m <sup>2</sup>	
ACCUPRO® One	Closed	-	2 m	Single pass		13	14	16	17		
				Double pass		9	10	11	12		
ACCUPRO® 360ST	-	G	4 m	Single pass	12 ½	14	15 ½	17 ½	19 ½	21 ½	24 ½
				Double pass	9	9 ½	10 ½	11 ½	12 ½	13	14

**Product name**  
oxide analysis  
(elemental analysis)

**Gronamic Mini 6-2-4**  
6-2-4  
(6-0.87-3.3)

### Product notes

Organic and mineral nutrition providing phased N-release for even growth.

### Recommended period of use

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# GRONAMIC®

## High N

### High nitrogen levels for sustained growth

16-3-6+2MgO+0.5Fe  
(16-1.3-5+1.2Mg+Fe)

Gronamic High N delivers sustained nutrition to the turf plant through the growing season. The supply of all key macronutrients and iron allows for a healthy plant, great turf colour and resilience from wear.

The balance of mineral and organic components provides the benefits from both approaches of turf nutrition. Supplies carbon to the soil/rootzone.

### Benefits

- Ideal through main growth periods of the season
- High nitrogen levels for sustained growth
- Combination of ammonium, urea and organic nitrogen sources
- Polyhalite mineral included to supply MgO & K for healthy growth
- Organic component supplies carbon to the soil



### Product characteristics

Formulation type: **Standard granule**  
 Technology: **Organo-mineral**  
 Granule size: **2-4+ mm**  
 Pack size: **25 kg**  
 Pack coverage: **625-833 m<sup>2</sup>**  
 Granule dispersal: **Less than 4 days**  
 Longevity: **6-8 weeks**  
 Typical turf response: **3-7 days (depending on environmental factors)**

### Application information

Application rate: **30-40 g/m<sup>2</sup>**

### Application notes

- ✓ Apply to dry foliage
- ✓ Water in if no rain falls within 1-2 days after application
- ✓ Irrigation or rainfall will assist dispersion and minimize risk on close mown surfaces
- ✗ Avoid applications during frosty or drought conditions
- ✗ Delay cutting or grooming for 2 days after application to allow product dispersal
- ✗ Product contains iron so if spilt on pavement, concrete or decorative surfaces brush off immediately as there is risk of staining

### Recommended usage

- Tees ✓
- Fairways ✓
- Stadia pitches ✓
- Sports pitches ✓
- Outfields ✓
- Racecourses ✓
- Lawns ✓

### Spreader settings

Spreader	Slider plate	Smart Spread™	Spread width	Setting to deliver g/m <sup>2</sup>							
				20 g/m <sup>2</sup>	25 g/m <sup>2</sup>	30 g/m <sup>2</sup>	35 g/m <sup>2</sup>	40 g/m <sup>2</sup>	45 g/m <sup>2</sup>	50 g/m <sup>2</sup>	
ACCUPRO® One	Open	-	2,5 m	Single pass		17	19	21	22		
				Double pass		13	14	15	16		
ACCUPRO® 360ST	-	G	3,5 m	Single pass	13	14	14 ½	16	17	18 ½	21
				Double pass	11	11 ½	12	12 ½	13	13 ½	14

**Product name**  
oxide analysis  
(elemental analysis)

**Gronamic High N**  
16-3-6+2MgO+0.5Fe  
(16-1.3-5+1.2Mg+Fe)

### Product notes

Balanced mineral and organic nutrients provide available and slow release nutrition.

### Recommended period of use

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# GRONAMIC®

## High K

### Where lower N and higher K are required

7-0-20+2MgO+0.5Fe  
(7-0-16.6+1.2MgO+Fe)

Gronamic High K delivers sustained nutrition to the turf plant through the growing season and high K levels for the autumn period. The supply of all key macronutrients allows for a healthy plant, great turf colour and resilience from wear.

The balance of mineral and organic components provides the benefits from both approaches of turf nutrition. Supplies carbon and a balanced C:N ratio to the soil / rootzone.

### Benefits

- Ideal for autumn fertilizer applications
- Low nitrogen levels for slow growth periods of the year
- High potassium to support the plant in periods of stress
- Combination of ammonium, urea and organic nitrogen sources
- Polyhalite mineral included to supply Mg & K for healthy growth
- Plant-based organic component



### Product characteristics

Formulation type: **Standard granule**  
 Technology: **Organo-mineral**  
 Granule size: **2-4+ mm**  
 Pack size: **25 kg**  
 Pack coverage: **1000-625 m<sup>2</sup>**  
 Granule dispersal: **2-4 days**  
 Longevity: **6-8 weeks**  
 Typical turf response: **3-7 days (depending on environmental factors)**

### Application information

Application rate: **25-40 g/m<sup>2</sup>**



### Application notes

- ✓ Apply to dry foliage
- ✓ Water in if no rain falls within 1-2 days after application
- ✓ Irrigation or rainfall will assist dispersion and minimize risk on close mown surfaces
- ✗ Avoid applications during frosty or drought conditions
- ✗ Delay cutting or grooming for 2 days after application to allow product dispersal
- ✗ Product contains iron so if spilt on pavement, concrete or decorative surfaces brush off immediately as there is risk of staining

### Recommended usage

Tees	✓
Fairways	✓
Stadia pitches	✓
Sports pitches	✓
Outfields	✓
Racecourses	✓
Lawns	✓

### Spreader settings

Spreader	Slider plate	Smart Spread™	Spread width	Setting to deliver g/m <sup>2</sup>							
				20 g/m <sup>2</sup>	25 g/m <sup>2</sup>	30 g/m <sup>2</sup>	35 g/m <sup>2</sup>	40 g/m <sup>2</sup>	45 g/m <sup>2</sup>	50 g/m <sup>2</sup>	
ACCUPRO® One	Open	-	2,5 m	Single pass		17	19	21	22		
				Double pass		13	14	15	16		
ACCUPRO® 360ST	-	G	3,5 m	Single pass	13	14	14 ½	16	17	18 ½	21
				Double pass	11	11 ½	12	12 ½	13	13 ½	14

**Product name**  
oxide analysis  
(elemental analysis)

**Gronamic High K**  
7-0-20+2MgO+1.5CaO+0,5Fe  
(7-0-16.6+1.2MgO+1Ca)

### Product notes

Balanced mineral and organic nutrients provide available and slow release nutrition. Ideal for use where higher K is required.

### Recommended period of use

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# GRONAMIC®

All-round

## Sustained nutrient release

10-4-5+2MgO+0.5Fe  
(10-1.7-4.1+1.2Mg+Fe)

Gronamic All-round delivers sustained nutrition to the turf plant through the growing season. The supply of key macronutrients allows for a healthy plant, sustained turf colour and resilience from wear.

The balance of mineral and organic components provides the benefits from both approaches of turf nutrition. Supplies carbon and a balanced C:N ratio to the soil/rootzone.

## Benefits

- Supports plant growth through the growing season
- Combination of ammonium, urea and organic nitrogen sources
- Sustained nutrient release
- Organic component supplies carbon to the soil



## Product characteristics

Formulation type: **Standard granule**  
 Technology: **Organo-mineral**  
 Granule size: **2-4+ mm**  
 Pack size: **25 kg**  
 Pack coverage: **625-833 m²**  
 Granule dispersal: **less than 4 days**  
 Longevity: **6-8 weeks**  
 Typical turf response: **3-7 days (depending on environmental factors)**

## Application information

Application rate: **30-40 g/m²**



## Application notes

- ✓ Apply to dry foliage
- ✓ Water in if no rain falls within 1-2 days after application
- ✓ Irrigation or rainfall will assist dispersion and minimize risk on close mown surfaces
- ✗ Avoid applications during frosty or drought conditions
- ✗ Delay cutting or grooming for 2 days after application to allow product dispersal
- ✗ Product contains iron so if spilt on pavement, concrete or decorative surfaces brush off immediately as there is risk of staining

## Recommended usage

- Fairways ✓
- Sports pitches ✓
- Outfields ✓
- Racecourses/Gallops ✓
- Lawns ✓

## Spreader settings

Spreader	Slider plate	Smart Spread™	Spread width	Setting to deliver g/m²							
				20 g/m²	25 g/m²	30 g/m²	35 g/m²	40 g/m²	45 g/m²	50 g/m²	
ACCUPRO® One	Open	-	2,5 m	Single pass		17	19	21	22		
				Double pass		13	14	15	16		
ACCUPRO® 360ST	-	G	3,5 m	Single pass	13	14	14 ½	16	17	18 ½	21
				Double pass	11	11 ½	12	12 ½	13	13 ½	14

**Product name**  
oxide analysis  
(elemental analysis)

**Gronamic All-round**  
10-4-5+2MgO+0.5Fe  
(10-1.7-4.1+1.2MgO+Fe)

### Product notes

Balanced mineral and organic nutrients provide available and slow release nutrition.

### Recommended period of use

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# GRONAMIC®

## Preseeder

### For seeding and SOD-laying operations

8-12-8  
(8-5.3-6.6)

Gronamic Preseeder delivers sustained nutrition to the turf plant and is designed for seeding and sod-laying operations. The supply of phosphate is essential to ensure healthy young plant development, and the balance of nitrogen and potassium ensure the young plants establish well.

The balance of mineral and organic components provides the benefits from both approaches of turf nutrition. Supplies carbon and a balanced C:N ratio to the soil / rootzone.

### Benefits

- Seeding and over-seeding fertilizer
- High P for the developing young plant
- Combination of ammonium, urea and organic nitrogen sources
- Organic and mineral component



### Product characteristics

Formulation type: **Standard granule**  
 Technology: **Organo-mineral**  
 Granule size: **2-4+ mm**  
 Pack size: **25 kg**  
 Pack coverage: **625-833 m²**  
 Granule dispersal: **less than 4 days**  
 Longevity: **6-8 weeks**  
 Typical turf response: **3-7 days (depending on environmental factors)**

### Application information

Application rate: **30-40 g/m²**

### Application notes

- ✓ Apply to turf bed during seeding, or turf surface during overseeding
- ✓ Water in if no rain falls within 1-2 days after application
- ✓ Irrigation or rainfall will assist dispersion and minimize risk on close mown surfaces
- ✗ Avoid applications during drought conditions

### Recommended usage

- Tees ✓
- Fairways ✓
- Stadia pitches ✓
- Sports pitches ✓
- Outfields ✓
- Racecourses/Gallops ✓
- Lawns ✓

### Spreader settings

Spreader	Slider plate	Smart Spread™	Spread width	Setting to deliver g/m²							
				20 g/m²	25 g/m²	30 g/m²	35 g/m²	40 g/m²	45 g/m²	50 g/m²	
ACCUPRO® One	Open	-	2,5 m	Single pass		17	19	21	22		
				Double pass		13	14	15	16		
ACCUPRO® 360ST	-	G	3,5 m	Single pass	13	14	14 ½	16	17	18 ½	21
				Double pass	11	11 ½	12	12 ½	13	13 ½	14

**Product name**  
oxide analysis  
(elemental analysis)

**Gronamic Preseeder**  
8-12-8  
(8-5.3-6.6)

### Product notes

The supply of phosphate is essential to ensure healthy young plant development.

### Recommended period of use

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ICL  
P.O. Box 40  
4190 CA Geldermalsen  
The Netherlands  
Tel.: +31 (0) 418 655 700  
Fax: +31 (0) 418 655 795

[www.icl-growingsolutions.com](http://www.icl-growingsolutions.com)



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