



Sierrablen[®] Mini

A range of **fertilisers** utilising
controlled release technology
for an **extended** 4 - 5 month **longevity**

Researched, formulated and
produced in-house by **AICL**

The Sierrablen Mini range utilises a combination of both controlled release and conventional fertiliser technologies with 4 - 5 month longevity.

Different nutrient inputs or release characteristics can be achieved depending on your requirements including quick response or slower, steadier release patterns based on the analysis selected.

Key points

- Proven longevity
- Uniform blend for even application and consistent performance
- Choice of release characteristics
- Ultimate turf safety in hot conditions*

* (26-0-0 Summer Safe only)

Areas of use

- ✓ Lawns
- ✓ Outfields
- ✓ Landscapes
- ✓ Sports pitches
- ✓ Golf courses
- ✓ Racecourses



Polyhalite

The mineral polyhalite is a component part of the Sierrablen Mini range. Polyhalite is a naturally occurring mineral fertiliser containing potassium, magnesium and calcium. We have found that the addition of polyhalite into our fertilisers results in improved turf colour, turf quality, turf vigour and growth rates.

Polyhalite has the minimum contents of:

- Potassium 14% K₂O as from potassium sulphate
- Magnesium 6% MgO as from magnesium sulphate
- Calcium 17% CaO as from calcium sulphate

Different sources of N to phase release over a 4 - 5 month period

The conventional and uncoated sources of nitrogen offer initial strong growth and visual response whilst the controlled release Poly-S granules continue to maintain turf quality for 4-5 months.

* Summer Safe contains 100% Poly-S coated Urea only

Sierrablen[®] Mini

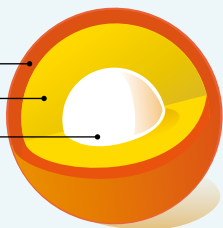
Controlled release, granular formulation

Sierrablen Mini fertilisers contain over 60%+ controlled release N in the form of our Poly-S technology.

The Poly-S in Sierrablen Mini is a controlled-release nitrogen source that delivers nitrogen gradually and consistently over a 4 - 5 month period. The nutrient release is primed by moisture permeating through the outer polymer channels, through micro-channels in the sulphur layer and into the nutrient core where the urea is solubilised. Once the urea is solubilised it is released and made available for plant uptake. This means that the fertiliser is released at an optimum rate for plant uptake and the risk of leaching losses is minimised.

Poly-S technology

Outer polymer coating
Inner sulphur coating
Urea nutrient core



Tested to guarantee longevity

Due to the extensive research, testing and quality control measures in place during production, the stated longevity of ICL controlled-release fertilisers such as Sierrablen Mini can be trusted and relied upon.

It's all about formulation...

There are a number of measures for granular fertilisers that are important to know and request.

- The Size Guide Number (SGN) is the median granule diameter (expressed as millimeters x 100) within the batch. It means that half of the fertiliser granules are larger than the set SGN and half are smaller.
- The Uniformity Index indicates the consistency of particle sizing within a fertiliser material. The higher the number, the more consistent the fertiliser is, resulting in optimal spread and application.

The SGN (Size Guide Number) for the Sierrablen Mini range will be an average of 150 with a high uniformity index. This is considered to be optimal for this category of fertiliser for application, coverage and dispersal. Competitor grades comprising of larger granules with a low uniformity index when applied would result in poor coverage, uneven distribution and would disperse less readily.

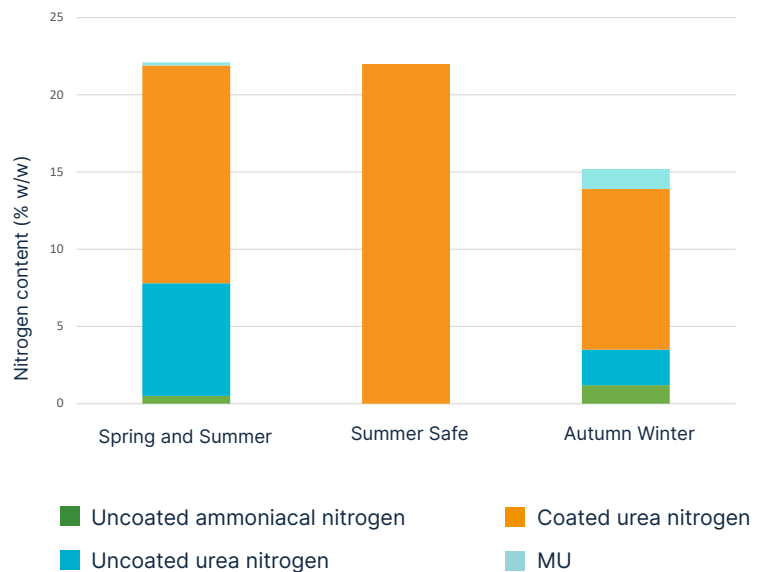
The physical characteristics of fertiliser blends dictate the performance of the product and with the Sierrablen Mini range, ICL are proud to be producing optimal formulations.



Product characteristics

Formulation type:	Mini-granule
Technology:	Controlled release
Granule size:	1 mm - 2.5 mm
Pack size:	25 kg
Pack coverage:	714 - 1,250 m ²
Granule dispersal:	7 days (visually dispersed from surface)
Longevity:	4 - 5 months
Typical turf response:	7 days (depending on environmental factors)

Nitrogen content in Sierrablen Mini



The Sierrablen Mini range

Product name oxide analysis (elemental analysis)	Longevity	Product notes	Recommended period of use	Nutrient
				Nitrogen Total N (% coated)
Spring and Summer 19-5-5 + 6CaO +2MgO (19-2.2-4.2 +4.3Ca +1.2Mg)	4 - 5 months	Spring and summer fertiliser containing a blend of nutrients with controlled release N for strong growth response and extended release pattern.		19 (70%)
Summer Safe 26-0-0 +16CaO (26-0-0 + 11.5Ca)	4 - 5 months	Low scorch risk formulation designed for application at any time during the summer. Growth response is dependent on conducive conditions.		26 (100%)
Autumn Winter 15-5-16 +3CaO (15-2.2-13.3 +2.1Ca)	4 - 5 months	Balanced formulation designed to boost and sustain turf growth through the autumn and winter period. Iron-free formulation.		15 (68%)



Rotary spreader (Accupro 2000, SR-2000)

Rate (g/m ²)	Cone Setting	Spread Width	Single Pass at Full Rate	Double Pass at Half Rate
25	4	4.8 m	O	L
30	4	4.8 m	P	M
35	4	4.8 m	R	M½
40	4	4.8 m	S	N
45	4	4.8 m	T	N½

Application information

Application rate:	20 - 35 g/m ²
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Nutrient breakdown							Application rate (g/m ²)	Nutrient levels applied (kg/ha)			Bag coverage per m ²
N-NH ₄	N-Urea	N-MU	Total P	Total K	MgO	CaO		N	P	K	
1.1	17.9	5	5	2	6	20	38.0	10.0	10.0	714 - 1,250	
						25	47.5	12.5	12.5		
						30	57.0	15.0	15.0		
						35	66.5	17.5	17.5		
	26				16	20	52.0			714 - 1,250	
						25	65.0				
						30	78.0				
						35	91.0				
1.2	12.5	1.3	5	16	3	20	30.0	10.0	32.0	714 - 1,250	
						25	37.5	12.5	40.0		
						30	45.0	15.0	48.0		
						35	52.5	17.5	56.0		



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