

Osmocote 5.
Small
granule,
big
impact.



Osmocote 5.

The next generation

Discover the latest innovation from the Osmocote Green Lab: Osmocote 5. Building on years of research and development, this next generation controlled release fertilizer helps growers create the strongest, healthiest, highest quality plants. Thanks to the OTEA-system and NutriMatch-Release, plants are greener, stronger and more resilient. So much technology in such a small granule. Looking to make a big impact? **Choose Osmocote 5.**

Osmocote 5 advantages for growers

- 1 Extraordinary leaf color, thanks to the OTEA-system, which supplies trace elements in an entirely new way
- 2 Nutrients supplied exactly when the plant needs them, through NutriMatch-Release technology, generating healthier plants of a higher quality, with improved branching, earlier budding, and improved leaf color
- 3 Greater disease resistance, thanks to smooth and steady plant growth enabled by NutriMatch-Release technology, which doses lower nutrient levels at the start of the crop growth, and later accelerates during the main growing season



Straight from the Osmocote Green Lab

At ICL we believe in innovation. For over 50 years, we have continuously invested in Osmocote product development, creating products to support growers in growing stronger, more resilient, and greener plants. You can rely on Osmocote to achieve excellent plant quality from potting to delivery, and a uniform crop as a result of safe and consistent nutrient release.

Osmocote®

Osmocote coating technology

- ✓ 100% coated NPK
- ✓ Full range of longevities available

The original

Controlled release fertilizer

1st Generation Coated Fertilizer
1st generation coated fertilizer

Osmocote® Pro

Additional to Osmocote:

- + Trace element package included in the granules
- + Orange/white color tracer for easy recognition

Proven performance

Controlled release fertilizer

2nd Generation Coated Fertilizer
2nd generation coated fertilizer

Osmocote® Exact

Additional to Osmocote Pro:

- + Pre-defined release patterns
- + Designed to perform in every situation
- + Meets highest quality standards
- + Highest safety for plants
- + Premium trace element package included
- + Color tracer for each longevity for easy recognition

3-4 **5-6** **8-9** **12-14**

The safest Osmocote ever

Standard Season+

Patterned release fertilizer

3rd Generation Coated Fertilizer
3rd generation coated fertilizer

Osmocote® Exact DCT

Additional to Osmocote Exact:

- + DCT (Double Coating Technology) included. Innovative technology which enables programmed release patterns.

Especially suitable for challenging growing conditions.

Taking fertilizers to a higher level

Hi-End Protect High K

Programmed release fertilizer

4th Generation Coated Fertilizer
4th generation coated fertilizer

Osmocote® 5

Additional to Osmocote Exact DCT:

- + OTEA®-system Better plant growth by Optimized Trace Element Availability throughout the season.
- + NutriMatch Release® Plants benefit from optimal NPK availability in the growing media. NutriMatch Release is the ultimate step in synchronizing NPK availability with plant need.

Osmocote 5 does not contain DCT, but is programmed like an improved Hi-End release.

Establishing the new standard in Coated Fertilizer plant nutrition

S-curved S.C.T.C.A.

Programmed release fertilizer

5th Generation Coated Fertilizer
5th generation coated fertilizer

The **Green** choice

Technologies & features

Every granule of Osmocote 5 contains...



NutriMatch-Release technology for an NPK release pattern that matches the plant's needs closer than ever before. It makes the uptake and use of the applied plant nutrition even more efficient and effective.



The ingenious **OTEA-system** optimizes the availability of trace elements in the growing media and their uptake by plants. Resulting in the best possible leaf color and growth, and greater disease resistance.



With over 50 years of experience and continuous development, Osmocote 5 is the **5th generation** of innovative Osmocote controlled release fertilizer.

Andreasens Green

Trial crop

Gardenia

Production size

62 ha



With 4 production nurseries totalling 62 hectares, Andreasens Green is one of Australia's largest suppliers of container nursery stock to the landscape market. Andreasens Green seek continuous improvement and value ICL's ongoing technical support. When asked to comment on the Osmocote 5 trial on Gardenias, Andreasens Mangrove Mountain production manager Ian Bowie said **"My Gardenia crop held a deep green colour right up until winter, which is very beneficial for Gardenias. This is reducing my need to top-dress."**



Ian Bowie and Robert Megier (ICL)



Grzegorz Białomazur
Owner

"All plants had a strongly developed root system and an intense coloring. The Japanese Azaleas have grown dense and will bloom profusely in spring, making them easier to sell. Heathers were better colored, with a deeper, more intense color. The early varieties bloomed earlier, so I was able to sell them earlier. In the following years I will continue applying Osmocote 5, so my plants can sell themselves, without any effort."

Szkółka Krzewów Ozdobnych Grzegorz Białomazur



Main crops

Heather and acid loving crops

Viveros Mas de Valero

Main crops

Trachycarpus fortunei, Olea Europaea, ornamental plants, climbing plants

Production size

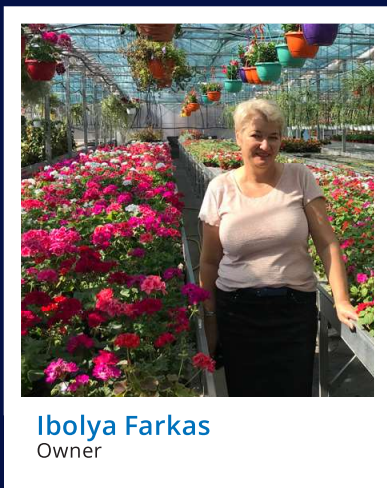
100 ha



"Osmocote 5 has a very particular release curve, with early stability, and that much more stable and homogeneous late release curve gives us a guarantee that the crop is developing very well in the early stages, so we know that the end customer will end up with a plant that meets all the requirements, with all the plant's needs covered. Osmocote 5 is our guarantee of this."



Pablo Bordón
Technical advisor



Ibolya Farkas
Owner

“Osmocote 5 is a perfect product. Based on the trials, I can say that the new Osmocote 5 showed either the same results as Osmocote Exact Hi.End, or even excelled in several cases. Crops showed a more advanced development, darker green foliage and a improved branching. I also noticed an earlier flowering. I am certainly eager to apply Osmocote 5 on a large scale in this nursery.”

Faribo



Main crops

Pelargonium, Poinsettia, Chrysanthemum, Viola, Begonia, Dianthus

Rhodo Glen Nurseries



Main crops

Camellia, Rhododendron

A long-standing supporter of ICL products, Andrew was keen to be involved in the trials of Osmocote 5. Not because he had any issues with his current practice, but to say it in his words: **“Any new product from ICL works towards greater outcomes and better controls.”** In these trials Andrew used Camellias as the trial crop.

“Compared to the control batch, Osmocote 5 produced a very consistent crop, with improved branching, earlier budding and improved color retention. Importantly, the trial batch was the first to sell due to earlier finishing. Osmocote 5 is the real deal.”



Andrew Raper
Owner

The latest technology for growers

Osmocote 5 brings the latest controlled release technology to growers. These 5th generation, programmed release fertilizers guarantee efficient, safe and consistent plant nutrition.

Product characteristics

- Appearance:** 100% coated granules
color coding included
- Packaging:** 25 kg preprinted paper bag with PE-inliner
- Granule size:** 2.0 - 4.5 mm

Range - 16-3.5-10+1.3Mg+TE



Analysis

TOTAL NITROGEN (N)	16%
PHOSPHORUS (P)	3.5%
POTASSIUM (K)	10%
MAGNESIUM (Mg)	1.3%
Iron (Fe) chelated by EDTA	0.30%
Manganese (Mn) chelated by EDTA	0.05%
Zinc (Zn) chelated by EDTA	0.012%
Copper (Cu)	0.015%
Boron (B)	0.01%
Molybdenum (Mo)	0.010%

Expert advice is the key to a good crop

Every growing situation is different. That's why you need the right specialised fertilisation programme to achieve optimum results. Our advisors will work with you and provide you with the best advice and achieve the best outcome for you and your crop.

Application methods

1. Incorporating into the growing media
2. Side and topdressing
3. Dibbling in plant hole

Always speak to an ICL advisor to determine the appropriate rate for your crop.

Directions for use

- For salt-sensitive plants use lower recommendation rate
- For covered CNS use 1g/L less than with open cultivation
- Use the same rates for Osmocote Exact Hi.End and Osmocote 5

Spoon feeding your plants

The best method for accurately adding fertilizer to potting media is to use a calibrated dibbling machine. The least reliable method is by handful guessing.

In between is a simple, yet reliable way and that is to use Osmocote yellow spoons. The spoons are graded for accuracy and it is worth asking an ICL advisor for a set and advice on how to use them. Underfeeding will necessitate topdressing later, which has high labour costs, so get your fertilizer rates spot on by spooning in.

When potting up, ensure the mentioned rates are present in the whole pot. The dilution effect should be compensated for to apply the correct dosage.

Recommended dosage for Osmocote 5, Osmocote Exact & Hi.End, Osmocote Pro and other Osmocotes.

Longevity	Recommended rate
	3 - 4.5 g/L
	4 - 5 g/L
	5 - 6 g/L
	6 - 7 g/L
	8 - 10 g/L



Example: Quantity of fertilizer per pot = 12g



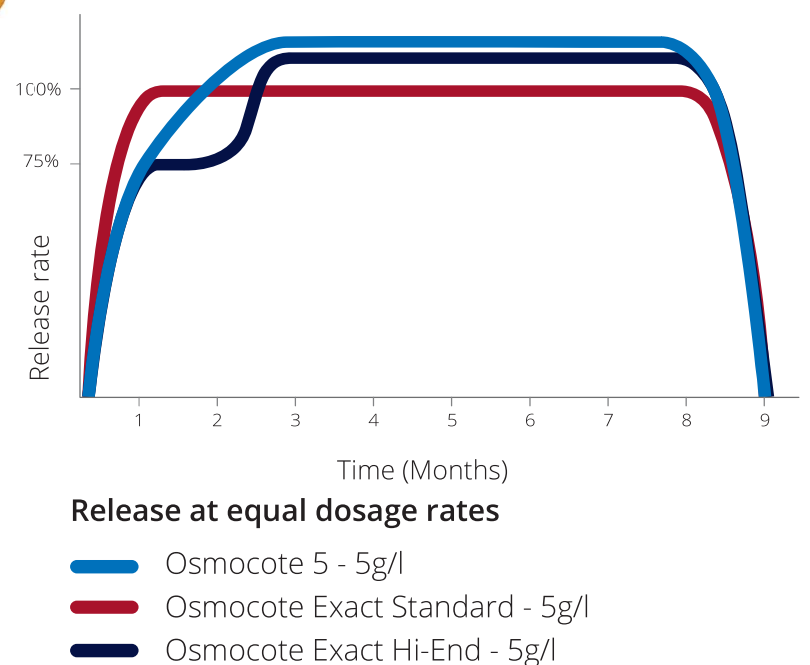
3 Litres of soil
3 x 4g/L = 12g



2 Litres of soil
2 x 6g/L = 12g

Compared with the original 4g/L, dosage must be increased to 6g/L.

Nutrient Release of Osmocote (8-9M Longevity)



Spoon Number	Osmocote Range
1	10g
2	15g
3	20g
4	35g
5	50g
6	80g
7	100g

Proven performance

Better root growth after 8 weeks

Crop: Salvias
Location: Australia



Control at 5kg/m3



Osmocote 5 at 5kg/m3

Perfect coloring

Crop: several
Location: Germany, 2020



Better branching and overall plant development

Crop: Prunus lusitanica
Location: Germany, 2020



Osmocote 5 8-9M



Stephen Green
Nursery Manager

Amanda Little
Nursery & Technical Manager

Lynwood Avocados is New Zealand's largest avocado propagation nursery. Supplying grafted seedling and clonal rootstock trees to orchards, retail nursery and other customers around the world.

"With a long term nursery crop like Avocados, Osmocote 5 12-14mth provides reliable, consistent release making watering and management decisions easy. The longevity also means, for the most part we can avoid costly topdressing."

Lynwood Avocado Nursery



Main crops

Avocado trees

Production size

150,000 trees per annum

Pépinières Combés



Main crops

Nerium oleander, Viburnum tinus, Lavandula, Rosmarinus

Production size

280.000 plants annually in pots from 3 – 12 l, and 2 ha open-field

Mathieu has been working with Osmocote fertilizers for years, so instead of starting a small-scale trial with Osmocote 5, Mathieu repotted 75% of his production with the new product:

“It was a full-scale test, showing even better coloration and even better growth in the month of August, with Osmocote 5.”



Mathieu Combés
Purchasing manager

Plantrite Wholesale Native Nursery

Main crops

W.A. Native Plants

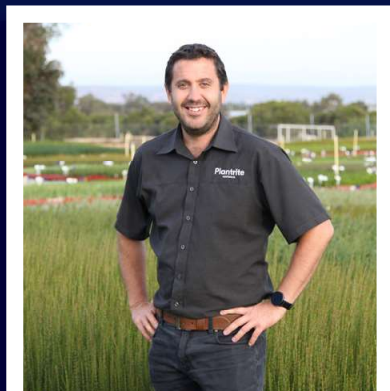
Production size

10 ha



David has been using Osmocote for many years and was interested to trial Osmocote 5 in the direct seeding of his natives.

“The trial in my native seedlings showed how Osmocote 5 produced a very healthy crop, with a significant higher percentage of saleable plants at the time I wanted to send them to my clients.”



David Lullfitz
Owner

H. Lüers Baumschulen und Pflanzenhandel



Main crops

Conifers, Calluna, Conica, Deciduous trees, Rhododendron, grasses

Production size

40 ha

With around 1.6 million plants in 40 varieties produced each year, Calluna vulgaris is one of Lüers' main crops. Thorsten trialled Osmocote 5 for this crop.

“We like the consistent and good supply of nutrients to our crops. We have a very uniform, well-colored stock. This fully ties in with what we have come to expect from Osmocote. We therefore decided to pot our entire Calluna and Erica production with Osmocote 5 in 2020, and we intend to carry this on to the Rhododendron crops in 2021.”



Thorsten Lüers
Owner

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