

Green Jacket

Controlled Release Fertiliser



GREEN JACKET controlled release fertilizers utilize advanced polyurethane coating technologies, which are specifically designed to meet the nutritional requirements of nursery and field crops. Coated nutrients feature an extremely durable ultra-thin polyurethane coating that provides nutrition at precisely the right time when plants need Major Elements, without the risks of premature or excessive release common to other fertilizers.

Polyurethane coating technology is the most advanced and predictable fertilizer coating technology on the market today. Through a patented reactive layers coating (RLC) process the ultra-thin coating is chemically bonded to nutrient granules, creating an extremely durable and reliable granule for 100 percent controlled release. As a result, horticultural growers produce higher quality plants without worrying about premature or excessive nutrient loss due to coating failures.

The ultra-thin polyurethane coating in **GREEN JACKET** is unlike any other "poly" product on the market today. The release rate of the polyurethane coated nutrients is only affected by temperature and coating thickness. Therefore, other uncontrollable environmental conditions like pH, microbial activity and soil type don't play a part in the plants nutritional feed program. **GREEN JACKET** releases through diffusion or more simply put, the process allows a constant, gradual diffusion of nutrients through the polyurethane coating and into the soil. As water goes in, the nutrients are released allowing each **GREEN JACKET** granule to dependably and reliably deliver nutrition to the root zone for a season long feeding with just one application.

The difference in **GREEN JACKET** controlled release fertilizers is simple; it's the polymer coating and quality assurance that goes into every bag. After the manufacturing process, the **GREEN JACKET** goes through a series of quality control tests to insure that each bag of **GREEN JACKET** releases the exact same way, every time. No other controlled-release fertilizer offers the proven durability, reliability and predictable performance that **GREEN JACKET** coated fertilizers offer. As a result, customers get the performance they have come to trust in every bag of **GREEN JACKET**.

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How does GREEN JACKET work?



MOISTURE ABSORPTION

During the first week after application, soil moisture is slowly absorbed by the polymer coating. When the absorbed moisture reaches the encapsulated nutrients; the nutrients begin to dissolve but are not yet released



NUTRIENT DIFFUSION

The encapsulated nutrients gradually dissolve into solution, then slowly and constantly release for months by diffusion.



POLYMER DECOMPOSITION

Following the complete release of nutrients, the ultra thin polymer membrane collapses and microbially decomposes into naturally occurring carbon dioxide, ammonium and water.

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Fertiliser Application Rates For Various Container Sizes

Type	Container Size		Approximate Volume litres	Pots Per Cubic Metre	FERTILISER RATE IN KILOGRAMS PER CUBIC METRE							
	mm	inch			3.0 kg	4.0 kg	5.0 kg	6.0 kg	7.0 kg	8.0 kg	9.0 kg	10.0 kg
					APPLICATION RATE IN GRAMS PER CONTAINER							
Tube	75	3	0.3	3000	1g	1.3g	1.6g	2g	2.3g	2.6g	2.9g	3.3g
Pot	100	4	0.5	2000	1.5g	2g	2.5g	3g	3.5g	4g	4.5g	5g
Pot	125	5	1	1000	3g	4g	5g	6g	7g	8g	9g	10g
Pot	150	6	2	590	5g	7g	8.5g	10g	12g	13.5g	15.5g	17g
Pot	175	7	3	330	9g	12g	15g	18g	21g	24g	27g	30g
Pot	200	8	5	220	14g	18g	23g	27g	32g	36g	41g	45g
Pot	250	10	10	100	30g	40g	50g	60g	70g	80g	90g	100g
Pot	300	12	13	75	40g	55g	65g	80g	95g	105g	120g	135g
Pot	330	13	16	65	45g	60g	80g	95g	110g	125g	140g	155g
Pot	400	16	24	40	70g	95g	120g	145g	170g	190g	215g	240g
Pot	500	20	50	20	150g	200g	250g	300g	350g	400g	450g	500g
Punnet	14x8.5x5		0.4	2300	1.3g	1.7g	2.2g	2.6g	3g	3.4g	3.9g	4.3g
Tray	35x30x5		5	200	15g	20g	25g	30g	35g	40g	45g	50g

The Rate of Application

Application rates are determined from Debco's expertise and the development of intellectual property relating to the product. Debco Recommends application rates of 1 kg per month of plant growth per cubic metre and a further cubic metre to cater for after sale growth and shelf life. This applies up to 6 kg unless the grower has experience with higher rates.

Green Jacket Formula 3-4 mths		1
NPK (15.8-4.0-13.1)	ANALYSIS (%)	
Nitrogen as nitrate	7.8	
as ammonium	8.0	
TOTAL Nitrogen	15.8	
Phosphorous as monoammonium phosphate	4.0	
Potassium as sulphate as nitrate	9.6	
	3.5	
TOTAL Potassium	13.1	
Suphur as sulphates	3.9	

Green Jacket Formula 5-6 mths		2
NPK (16.5-4.1-9.6)	ANALYSIS (%)	
Nitrogen as nitrate	7.4	
as ammonium	9.1	
TOTAL Nitrogen	16.5	
Phosphorous as monoammonium phosphate	4.1	
Potassium as sulphate	9.6	
Suphur as sulphates	3.9	

Green Jacket Formula 8-9 mths		3
NPK (16.4-5-10)	ANALYSIS (%)	
Nitrogen as nitrate	7.3	
as ammonium	8.7	
TOTAL Nitrogen	16.0	
Phosphorous as monoammonium phosphate	4.5	
Potassium as sulphate as nitrate	8.3	
	1.7	
TOTAL Potassium	10.0	
Suphur as sulphates	3.9	

Green Jacket Formula 10-12 mths		4
NPK (16.1-4.2-9.8)	ANALYSIS (%)	
Nitrogen as nitrate	7.4	
as ammonium	8.7	
TOTAL Nitrogen	16.1	
Phosphorous as monoammonium phosphate	4.2	
Potassium as sulphate as nitrate	8.1	
	1.7	
TOTAL Potassium	9.8	
Suphur as sulphates	3.3	

Green Jacket Formula 8-9 mths		5
NPK (16.3-1.3-19.1)	ANALYSIS (%)	
Nitrogen as nitrate	9.2	
as ammonium	5.0	
as urea	2.1	
max. Biuret 0.34%		
TOTAL Nitrogen	16.3	
Phosphorous as monoammonium phosphate	1.3	
Potassium as sulphate as nitrate	5.1	
	14.0	
TOTAL Potassium	19.1	
Suphur as sulphates	2.0	

Green Jacket Formula 5-6 mths		6
NPK (18-2.5-9.8)	ANALYSIS (%)	
Nitrogen as nitrate	8.5	
as ammonium	9.5	
TOTAL Nitrogen	18.0	
Phosphorous as monoammonium phosphate	2.5	
Potassium as sulphate	9.8	
Suphur as sulphates	4.0	

Green Jacket Formula 8-9 mths		7
NPK (17.7-2.4-9.6)	ANALYSIS (%)	
Nitrogen as nitrate	8.3	
as ammonium	9.4	
TOTAL Nitrogen	15.8	
Phosphorous as monoammonium phosphate	2.4	
Potassium as sulphate	9.6	
Suphur as sulphates	3.9	

Green Jacket Formula 10-12 mths		8
NPK (17.4-2.3-9.4)	ANALYSIS (%)	
Nitrogen as nitrate	8.2	
as ammonium	9.2	
TOTAL Nitrogen	17.4	
Phosphorous as monoammonium phosphate	2.3	
Potassium as sulphate	9.4	
Suphur as sulphates	3.9	

Custom Blending Service

The unique feature of the Debco blending plant located in Melbourne is that we are able to custom blend by plant species for the Australian market. These special formulas optimise growth of your plants giving you correct release curves and optimising the performance for various container sizes. We will customised blends in quantities as low as 500kg. For this service please Debco on 1800 709 588

