



Calomex 105



HORTICULTURE

Product Guide



Calomex 105

Liquid Calcium Nitrate (7.6% N 10.5% Ca w/w)

Maintaining adequate nutrition is among the most critical aspects of producing greenhouse and protected crops. At present most growers utilize a liquid feed programme as their primary means of supplying plant nutrients. This is done using a combination of soluble fertilisers to provide the complete nutritional package for all crops and situations.

Such feed programmes generally include calcium nitrate, which usually has to be stored, mixed and fed separately to avoid crystallisation or sedimentation in lines and nozzles. The usual method is to dissolve calcium nitrate (15.5% N + 19% Ca) in water in tank A and all other nutrients in tank B.

CALOMEX 105 offers an alternative source of calcium as a bulk liquid which has potential benefits for most professional growers.



Specification

- 45% Calcium Nitrate Solution
- Calomex 105 contains 105 g/kg Ca or 145 g/kg CaO (149 g/l Ca, or 206 g/l CaO)
- Calomex 105 contains 7.6% N + 10.5% Ca (w/w)
- SG = 1.423
- 1 kg of bagged calcium nitrate (19%) = 1.27 litres Calomex 105 solution = 1.81 kg

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Benefits of Calomex 105

- Bulk delivery into dedicated storage tank
- No staff needed to offload
- No forklift required
- No bags, no pallets, no waste
- No dry inside storage required
- No manual handling
- No ammonium N in formulation
- Potential to automatic dose
- Reduced risk of incorrect dosing
- Potential to reduce labour costs
- Auto-refill facility possible
- Make in the United Kingdom



How to use Calomex 105

Calomex 105 can be used in any fertigation or hydroponic system.

The most common way of using Calomex 105 is to use alone in tank A in a two tank stock solution system.

Use instead of bagged calcium nitrate, replace 1kg of calcium nitrate with 1.27L of Calomex 105.

Calomex 105 can be transferred to stock tank A using a dispensing system, or be tapped off and added manually.

Ready Reckoner

19% Calcium Nitrate	CALOMEX 105	19% Calcium Nitrate	CALOMEX 105
1kg	1.27L	10kg	12.7L
2kg	2.54L	25kg	31.75L
3kg	3.81L	40kg	50.8L
5kg	6.35L	50kg	63.5L

CALOMEX 105 could be fed directly into the feed system using appropriate dosing equipment if required.

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Order Procedure

Customers are able to place an order for their anticipated requirement for the season and call off loads against the order. Calomex 105 price on the order will be based on the planned load size at time of delivery, if a small/part load is required then a capped load charge will apply to that load (see pricing).

- Orders must be emailed to sales@omex.com by you or your OMEX account manager, and should include the following details:
- Customer trading title and invoice address.
- Contact name, office phone, mobile, and email address.
- Delivery address.
- Calomex order size in tonnes.
- Alternatively, customers may place orders in season and want delivery within a few days, this is possible by emailing directly to sales@omex.com. The order must specify for immediate delivery.

Call Off/Arrange Delivery

Customers will arrange delivery from their order by emailing sales@omex.com. The call-off instruction must specify:

- Tonnage.
- Delivery destination(s).
- Please include tank numbers and approx. amount per tank if multiple discharges on one delivery.
- Any special requirements.

Delivery

OMEX commit to delivering with 3-4 days of call-off.

OMEX make the delivery, the customer does not have to be on site to accept the load. After discharge the driver will attach the POD to the tank/leave at the site office/give to the customer, as appropriate.

Min. load size for direct delivery is 12t (8,500L approx.)

For deliveries under 12t, a milk round will take place once cumulative tonnage exceeds 12t within a sensible geographical area (for example within the same county).

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Invoicing

Customers will receive an invoice for each load delivered.

Full loads to one customer will be invoiced based upon the weighbridge ticket. Part loads on a milk round will be invoiced based on flow metre readings at point of discharge.

Standard unit of measurement is metric tonne.

Pricing

Calomex pricing will be in line with prices for bagged calcium nitrate.

1kg of bagged calcium nitrate = 1.27 litres CALOMEX 105 = 1.81kg.

The invoice price will be based on the actual load size, not planned load size or total order size.

Customers will be invoiced at the price agreed at time of order provided the load is within the load size parameters on the order.

If total order is priced based on full loads (25-28t), but a part load is delivered, the customer will be charged a capped load charge as follows:

- 20-24.99t £10/t
- 12-19.99t £25/t



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Site Requirements

Calomex storage tanks should be positioned close enough to the feed station to allow pipework to be installed between Calomex tank and feed tank / dosing unit.

Both access to the site and the tank must be suitable for articulated LGVs. The tanker driver must be able to get close enough to the tank so that both tank and tanker are visible during discharge, and the vehicle remains on hard standing.

Prior to installation, OMEX will conduct a site assessment to confirm the proposed location of the tank is safe for both installation and use. The tank should be installed within a bund. Advice on the best way to do this will be given during the site assessment.

Storage Tank Specification

Green vertical plastic storage tank constructed in polyethylene, suitable for 1.5 s.g. products. Tanks supplied complete with bolt down feet and 3" PN16 flanged bottom outlet. A suitable concrete pad and bund will need to be supplied by the customer. Tank fittings supplied with tank include:

- 3" stainless steel butterfly valve.
- 3" PN16 PVC threaded flange (3" BSP female thread)
- Stainless Steel flange bolts 8 no. M16 x 110mm
- A second 3" inlet with stainless steel ball valve, 3" camlock fitting and security sleeve.
- Bolt down parabolts.
- 620mm vented screw lid.
- Liquilevel tank level indicator



[12.5 cubic metre Calomex tank]

Size Options

5,000 Litre Nominal Capacity	Approx. 7.1 tonnes	(1.9m Dia x 1.96m High)	£220.00
12,500 Litre Nominal Capacity	Approx. 17.75 tonnes	(2.6m Dia x 2.6m High)	£270.00
20,000 Litre Nominal Capacity	Approx. 28.40 tonnes	(3.45m Dia x 3m High)	£340.00
30,000 Litre Nominal Capacity	Approx. 42.60 tonnes	(3.45m Dia x 3.65m High)	£420.00

Tank(s) will be supplied FOC in year one. In subsequent years a throughput rebate of £2/t will be applied to the annual rent, up to a maximum of the annual rent.

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Bunding

Tanks must be installed within a bund. The bund needs to be 110% of the capacity of the largest tank and account for displacement caused by other tanks in the bund.

The 5,000 and 12,500 litre tanks are available as double skinned self-bunded tanks:

5,000 Litre Nominal Capacity. Approx. 7 tonnes (2.4m Dia x 2.5m High) £320.00

15,000 Litre Nominal Capacity. Approx. 21 tonnes (2.6m Dia x 4.15m High) £670.00

The larger tanks would have to sit within a bund. Cost of installing a bund wall would sit with the customer.

Optional Extras - Tank Content Indicator

The following optional extras can be specified for installation with the Calomex storage tank. All extras are separate to the Rental Agreement and will be charged accordingly.

There are two options available for tank contents indication / reading.		Purchase Price
I level telemetry tank level monitoring system, supplied fitted to the storage tank, this system comes with a high accuracy pressure sensor and remote display for mounting in a suitable position. The display can be easily activated to give instantaneous tank contents reading. The unit can be supplied as mains powered (240v) or battery powered (2 year life span). Tank contents can be monitored remotely via a computer with internet access or by smart phone (not blackberry).		£750.00
Annual service charge for data handling and sim:		£130 per annum
Pulsar ultrasonic level system, system consists of Ultrasonic head fitted to tank and display unit for mounting in a suitable position. 240/110v supply will be required to power the unit (to be supplied by customer) Unit is fitted with 3 user programmable relays and 4 -20ma output.		£900.00



HEAD OFFICE

Bardney Airfield • Tupholme
Lincoln • LN3 5TP
Tel 01526 396000 • Fax 01526 396001
Web www.omex.co.uk

GENERAL ENQUIRIES

OMEX Horticulture • Estuary Road
King's Lynn • Norfolk • PE30 2HH
Tel 01553 760011 • Fax 01553 769784
Email horticulture@omex.com
Web www.omex.co.uk

ORDERS

Email sales@omex.com

SALES

Northern England and Scotland
Richard Cameron
Mobile 07710 880171
Email RichardCa@omex.com

Southern England

Darren Tongue
Mobile 07469 145998
Email DarrenT@omex.com

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