

# STRAIGHTS

## Magnesium Nitrate Horticultural Grade



Van Iperen International has a complete line of magnesium products, both in sulphate and in nitrate form. The Magnesium Nitrate products come as solid and liquid formulations and are suitable for fertigation of high tech covered crops as well as for foliar feeding. The fully soluble solid formulation has a unique pastille form to prevent caking. The liquid formulation is a transparent solution of high purity. Our Magnesium Sulphate Horticultural Grade – a Heptahydrate formulation – is also suitable for both purposes: fertigation and foliar.



For a complete overview of our magnesium products, please visit our website: [www.vaniperen.com](http://www.vaniperen.com)

### Product characteristics

- Fully water soluble product in the form of pastilles
- Free of chloride, sodium and other detrimental elements for plants
- Resistant to caking, due to its unique pastille shape
- Guarantees a quick reaction from the plant, especially when used as a foliar
- Used as a foliar and for fertigation purposes
- Available as specific derivatives with e.g. Calcium Nitrate or (chelated) trace elements
- Compatible with most water-soluble fertilizers

### Packaging

Available in packages of 1.000 kg and 25 kg.

### Dosing instructions

G / 1.000 l stock solution	N-NO <sub>3</sub> In g / 1.000 l or ppm	Mg In g / 1.000 l or ppm	MgO In g / 1.000 l or ppm
100	10.5	9.6	15.6
130	13.6	12.4	20.2
160	16.8	15.3	25.0
190	20.0	18.2	29.6
210	22.0	20.1	32.7

The table above represents the amount of nutrients in the stock solution. The final concentration in the irrigation water depends on the amount of nutrients in the stock solution as well as the injection ratio.



## Dosing instructions | Fertigation

Crop	Application date	Total dosage in kg / ha
Fruit trees	Just after flowering stage	100 - 200 kg*
Vineyards (adult table grapes)	Just after bud opening until main vegetative growth stage	100 - 150 kg*
Vegetables	As of start vegetative growth until beginning of fruit setting	150 - 300 kg*
Processing vegetables • Potatoes  • Tomatoes	As of tuber initiation until 10 days before end of tuber enlargement As of 1 month after planting until maturation stage	100 - 200 kg* 150 - 300 kg*

\* Total dosage is subject to soil and climatic condition

## Dosing instructions | Foliar

Crop	Application date	Dosage in kg / application	Concentration of spray solution
Fruit trees	3 - 4 applications: - starting just after flowering period	3 - 8 kg / ha*	0.5 - 1.5% (w/v)
Field crops: - Corn - Rape - Winter wheat  - Sugar beets	1 to 2 applications: - after 5 leave stage - from vegetative growth until flowering - as of stem elongation until flowering  2 to 3 applications: - during spring time	3 - 6 kg / ha* 3 - 6 kg / ha* 3 - 6 kg / ha*  3 - 8 kg / ha*	1.0 - 1.5% (w/v) 1.0 - 1.5% (w/v) 1.0 - 1.5% (w/v)  1.0 - 2.0% (w/v)
Citrus	2 to 4 applications: - in spring, as of growth of leaves	5 - 10 kg / ha*	1.0 - 2.0% (w/v)
Olive	2 applications: - just before full flowering - 3 - 4 weeks after flowering	3 - 9 kg / ha* 3 - 9 kg / ha*	0.5 - 2.0% (w/v)
Vineyards: - adult table grapes	3 to 4 applications: - To prevent drying of the stalk, 10 days interval	3 - 9 kg / ha*	0.5 - 1.5% (w/v)
Vegetables: - Melon	2 - 5 applications: - At the vegetative stage until blooming of female flowers	3 - 10 kg / ha*	0.5 - 1.5% (w/v)

\* depending on amount of water used

Magnesium Nitrate Horticultural Grade is compatible with pesticides, though it is advisable to confirm compatibility of your intended spray-mix by preparing a sample of the spray materials at their recommended concentrations in order to rule out the possibility of a detrimental cross reaction. This mixture should be sprayed onto small area prior to commercial treatment, in order to assess whether an adverse effect occurs.

The mentioned indicated dosage and application stages are subject to soil and climatic conditions, possible use of manure, influence of previous crops and other specific conditions. Exact dosages and application stages can only be given after an objective diagnostic procedure by e.g. soil and plant analyses.

