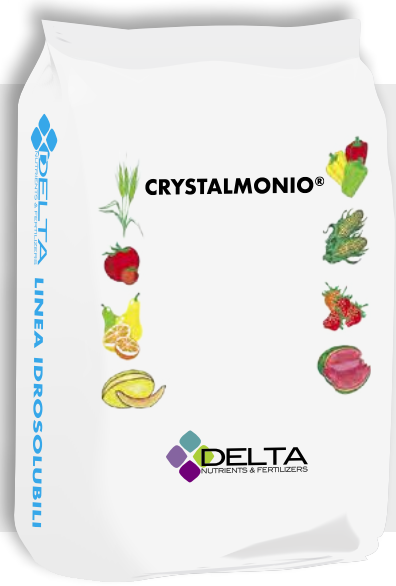
CRYSTALMONIO®

WATER SOLUBLE AMMONIUM SULPHATE FOR FERTIGATION

CRYSTALLINE FORM

PRODUCT FOR PROFESSIONAL USE

FOLIAR PRODUCT



PACKAGING:

- 25 kg bag on a 1050 kg pallet
- 500 kg big bags

CRYSTALMONIO® is a product based on pure and completely soluble Ammonium Sulphate. It has a crystalline form and its usage is "universal" for all crops, at the beginning and in the middle of the vegetative cycle. Its nutritional contents are given from Nitrogen that is exclusively ammoniacal NH_3=20% and from Sulphur in the form of Sulphur trioxide SO_3=60%.

Its main modality of use is to be dissolved in water and to form a fertigation formula. But it also finds usage with the direct spreading on the soil and with following irrigation.

MAIN CHARACTERISTICS:

Crystalline water-soluble Ammonium Sulphate

Appearance: translucent crystal powder

20% ammoniacal Nitrogen (NH_3)

60% Sulphur trioxide (SO_3)

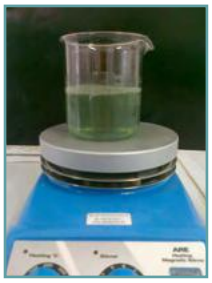
Specific weight: 1,0 kg/l.

By using **CRYSTALMONIO®**, it means to achieve the following goals:

1) **To provide the crop with quick-effect nitrogenous nutrition.** It is recommended not to apply high quantities for each operation, since although ammoniacal, mineral Nitrogen can be partly lost due to leaching or volatilization. This phenomenon depends a lot on the type of soil in which the fertilization takes place, from the % of organic matter that is present, from the quantity of water distributed.
2) **To add Sulphur as a nutrient.** This is an important feature, most of all for some families of horticultural crops whose aromas, flavors and smells are tied to molecules which contain the element Sulphur: onion, garlic, leek, cabbage, kale. In the same way, strawberry, industrial tomato and table tomato are also positively affected but that.
3) **To use a guaranteed product. In terms of:** raw material purity, absence of heavy metals. It does not present particular contraindications to manipulation done by the user.
4) **To determine an acidifying action to the soil.** The high presence of SO_3 creates in the spreading area an acid reaction which facilitates the absorption of Phosphorus and other microelements through the roots. Furthermore, is used when it is dissolved in water, it leads to the acidification of the solution (pH value in function of possible concentration; watch the chart below).

Solution concentration	pH
0,1% solution (100 g of product in 100 l H_2O)	4,3
0,2% solution (100 g of product in 100 l H_2O)	4,1
0,3% solution (100 g of product in 100 l H_2O)	4,0
0,4% solution (100 g of product in 100 l H_2O)	3,7
0,5% solution (100 g of product in 100 l H_2O)	3,4



CRYSTALMONIO® water solubility check; maximum concentration possible: 740 g/H_2O at 25°C

The product can be mixed with fluid organic products (AMINOSPRINT® N8 and AMINOSUPER® N6,5 FOMET SpA brand) and with other mineral fertilizing products (Urea, Ammonium Nitrate, Phosphoric Acid, monoammonium Phosphate, Magnesium Sulphate, Potassium Sulphate), apart from the ones based on Calcium, with the aim to prevent $CaSO_4$ precipitations.

USAGE DOSES:

Use **CRYSTALMONIO**® in average quantities of about 25 - 40 kg/ha on horticultural crops/flower crops in open field; equal to 2,5 - 4,0 kg/1000 m^2 in a greenhouse. Intervene with 2 fertigation processes at a distance of about 10 - 12 days, depending on climate and on the vegetative development of the crop.

Average dilution is about 2 - 3 g/l and it can also happen in a mix with fluid organic products (see above), of which 1,5 - 2 g/l can be added. The organic product must be added in the second place, with the stirrer working at a moderate speed (to avoid the "foam effect").

The product can have an "universal" usage also on lawns, garden plants, green borders and ornament borders; in these cases it can also be distributed directly on the soil, 30 - 50 g/m^2 with following irrigation.



Abovementioned doses have indicative value and can vary in relation to pedoclimatic characteristics of each area (fertility: chemical, physical and biological; rainfall and temperature).

Keep in a sheltered dry place.
Keep out of reach of children and animals

The analytical data written on packaging follow the instruction of the regulation in force. All data included in this publication are indicative. DELTA srl reserves the right to change them without prior notice.

Properly dispose of packaging.
Only for professional use.

DELTA srl Via 4 Novembre, 24
37050 San Pietro di Morubio (Vr)
Italy - UE / Tel. ++39 045 6969011
www.deltafert.it - info@deltafert.it