

ANC ENZYME SOLUTIONS PTE LTD

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Assimil-VAM

AM Mycorrhiza

Assimil VAM is a carefully formulated bio inoculum of biologically active and inert materials. Assimil VAM includes a combination of different species of mycorrhizal fungi and other beneficial soil microorganism like Bacillus megaterium. Assimil VAM Plus is a carrier-based product containing the mycorrhizal spores with minimum 30-40 infective Propagules per 100 gram.

Mode of action

The network of fungal filaments established simultaneously inside the roots and the soil considerably increase the volume of soil to which the root system has access. Water and minerals from the soil are easily available resulting in a better nutritive equilibrium. This result in an increase in plant resistance to environmental stresses such as drought, chilling and detrimental effects of some root pathogens.

Fungi are heterotrophs and they benefit it by obtaining from their plant partners increased sources of Carbohydrates, aminoacids, vitamins and other elements essential for its growth. This interaction between plants and fungi creates a real symbiotic relationship and is advantageous to both the partners.

How to Use Assimil VAM

In order to maximize the benefits of Assimil VAM for plant growth, health, and yield, we recommend inoculation as early in the plant's life cycle as feasible. Direct inoculation of the root during germination or rooting can enhance the quality and quantity of mycorrhizal formation.

The best strategy for inoculating Assimil VAM into an existing system is by side dressing, vectoring or probing into the root zone. The key to success is to place Assimil VAM within VAM within one inch of the roots, so that the mycorrhizae can begin forming their beneficial symbiotic relationship with the plant.

Dosage

Soil Application

8-10kgs of Assimil VAM per acre is applied along with 1000kgs of commercial organic manure. Assimil VAM plus can also be applied along with Biofertilizers like Phosphobacter and Azospirillum. 25-30 gm per Green house potted plants.

| Crop | Method of propagation | Place of application of VAM | Stage of plant | NPK*Dosage |
|---|--------------------------------|---|---|--|
| Papaya | Seed | Nursery/ Polybag | 50g to 500g of inoculum in nursery soil mixture & 250g of inoculum of pits before transplanting to the main field | N and K recommended dosage. P at 75% of the recommended dosage |
| Banana | Suckers | Added to pits in the field | 500 with 10kg of FYM and 2kg of Neemcake | N and K recommended. P can be totally avoided |
| Mango, Guava, Sapota & Citrus | Grafted plants | Added to polybags while raising rootstock and then to the pits. | 100g at the tie of raising rootstock and 500g to pots before transplanting grafted rootstocks | N and K as recommended. P at 50 % of the Recommended dose. |
| Pomegranate | Air layering / Cutting / Seeds | Added to air layering mixture | 50g of inoculum mixed with FYM and added to 1m x 1m nurseries | -Do- |
| Tomato, Brinjal, Chillies | Seedlings raised in nursery | Nursery | 1kg of inoculum mixed with FYM and added to 1m x 1m nurseries | Recommended quantity of N & K. Application of P may be reduced by 25% |
| Legumes including Bean, Cowpea | Seeds | | 10g per seed or plant dibbled with the seed or applied to soil near root zone along with Rhizobium culture immediately after seed | N application may be reduced to half if Rhizobium cultures are used. K dose is normal. P may be reduced by 25% |
| Chrysan themum | Suckers/Tissue cultured plants | Soil application | 50g/plant inoculum is added near the root zone as soon as planted | N and K regular dose. P may be reduced by 25% |
| Gerbera China Aster Marigold Crossandra | Seeds | Applied in the nursery | 1 kg of inoculum for 1m x 1m nursery | N and K regular dose. P may be reduced by 25% |
| Gladiolus, Tuberose | Corms/Bulbs | Soil Application | 50g per plant near the root zone | N and K regular dose. P may be reduced by 25% |

Shelf Life

One year if stored at 20-25°C and if unopened

Packing

25Kg HDPE Drum.

Disclaimer-All suggestions and data presented are based on information and tests that are believed to be accurate and reliable, but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility. It is recommended that the user carry out their own tests to determine the suitability of the product to his/her process before incorporating the product on a commercial scale. ANC Enzyme Solutions Pte Ltd