



## NURTURKIND – MACROMIX

### Nanolizer (11:11:08 SC)

NURTURKIND MACROMIX is prepared by Nano-technology which is the science of engineering large particles into significantly smaller micron size. NURTURKIND MACROMIX is a suspension concentrate (SC) to get micron sized particles of nutrients into suspended formulation. NURTURKIND MACROMIX has higher Nutrient Uptake Efficiency (NUE) compared to conventional fertilizer due to SC form. NURTURKIND MACROMIX is synthesized from water soluble compounds of N, P, K using a chain of chemical, physical, mechanical or biological processes.





## Mode of Action







NURTURKIND MACROMIX improves uptake of nutrients through pores of plant cells. NURTURKIND MACROMIX particle size is less than 30  $\mu$  and thus promotes rapid absorption in roots and leaves. NURTURKIND MACROMIX enters the plant root (nutrient gateway) easily, because the plant cell wall openings are in the range of 20-80  $\mu$  and are highly porous on micro-meter scale. NURTURKIND MACROMIX particles are absorbed & penetrated into the leaf opening easily because the stomata openings of leaf are also in the range of 20-80  $\mu$ .

## Features & Benefits

- NURTURKIND MACROMIX has faster absorption rate and mobility in the plant.
- NURTURKIND MACROMIX, once enter into the plant through leaf, the cell-to-cell transportation is facilitated faster.
- NURTURKIND MACROMIX are more efficient or more active than normal NPK (WSF powder), due to smaller particle size.
- NURTURKIND MACROMIX dose per acre is far smaller than conventional fertilizer due to extremely small particle size and thus it is a major invention in agriculture.
- NURTURKIND MACROMIX can be applied more efficiently and broadcast/top dressing of N, through conventional nitrogen source can be replaced in proportion.
- NURTURKIND MACROMIX contains 11% N in NO<sub>3</sub> form, which is readily taken up by crops. N accelerates carbohydrate metabolism, works as a vital element in protein metabolism & cell division and is an important element for healthy growth.
- NURTURKIND MACROMIX contains 11% P in utilizable form. P is an essential plant nutrient for optimum crop growth, involved in transfer, storage and conservation of energy during physiological processes in the form of ATP & ADP.
- NURTURKIND MACROMIX also contains 8% K in the form of KNO<sub>3</sub>, which helps increased absorption of the element. K is a vital element during fruit development & maturity, improves fruit size & taste, gives better colour & shining and enhances shelf-life.

## Crop Recommendation

CROPS	TARGET PEST/ DISEASE	DOSAGE
 Vegetables: 20 Days after sowing/transplanting, 10 days after last spray	Healthy growth, Strong root development, Better foliage development, Healthy growth & maintenance	1 ml/L(Foliar spray)
 Cotton: 20 days after emergence	Root development, Early establishment of seedlings, Better branching	1 ml/L(Foliar spray)
 Bengal gram / Green gram: 20 DAS	Healthy growth & branching	1 ml/L(Foliar spray)
 Tea: At 15 – 30 days intervals	Increase foliage/ new leaves	0.5 ml/L(Foliar spray)

CROPS	TARGET PEST/ DISEASE	DOSAGE
 Onion/Garlic: 20 DAT	Enhances early vegetative growth, Maintains greenness of leaves	1 ml/L (Foliar spray)
 Potato: 20 days after planting	Enhances early vegetative growth, Better root development	1 ml/L (Foliar spray)
 Paddy: 15 DAT	Root development, Early establishment of seedlings, Better tillering	1 ml/L (Foliar spray)
 Soybean: 20 DAS	Better branching, Better diseases & stress resistance	1 ml/L (Foliar spray)
 Watermelon / Muskmelon 20 DAS	Better root development, Healthy growth & branching	1 ml/L (Foliar spray)
 Sugarcane: 30 days after germination	Better root development, Better early vegetative growth	1 ml/L (Foliar spray)

## Pack Sizes

1 Ltr	500 ml	250 ml	100 ml
-------	--------	--------	--------