



**TECHNICAL DATA SHEET**

**Amino TE**



# General Information

Amino TE is obtained from the hydrolysed protein, containing amino acids, total water soluble. It contains plant Trace Elements (Fe, Cu, B, Zn, Mn) (10%) as amino acid chelated form.

## Common Core Advantages

### 1. Dual-Channel Uptake Mechanism:

- Root absorption via Low-Affinity Transport System (LST)
- 3~5x faster foliar penetration than inorganic salts

### 2. Antagonism Resistance & Stability:

- Soluble at pH 3~9
- Resists precipitation by P, Fe, Al ions

### 3. Enhanced Physiological Activity:

- Amino acids as C/N source reduce assimilation energy cost

Advantages

## Technical Information

Physical Properties		Chemical Properties	
Color	Light Brown to Green	Total Amino acid Content	25%
Odor	Special Aromatic	Nitrogen	10%
Water Solubility	100%	Trace Elements(Fe, Cu, B, Zn, Mn) in chelated form	10%
Moisture	5%		
PH Value	3~6		

## Advantages of Amino TE in Agriculture

### Breakthrough Synergistic Effects



- Zn+Mn blend: 15%↑ maize drought resistance



- Salinity: Blocks Na<sup>+</sup> toxicity (40%↑ cotton survival)

- Drought: Proline carrier retains water (8.5%↑ wheat TKW)



- Dosage = 30%~50% of inorganic salts

- 20%↓ soil Cd uptake

## PACKING OPTIONS

Package Options: 10Kg, 20Kg bag or 600Kg bulk bag

Storage: Dry, cool, direct sun light proof, moisture proof warehouse.

Shelf life: 36 months.

# Application

*When blending with chemical fertilizers, utilization rate can be improved, in which the quantity used for fertilizers could be reduced.*



## **Foliar spray: 1: 600-1000**

1 part Amino TE Powder : 600~1000 parts water (Final concentration: 0.1%~0.17%)

Apply until foliage is uniformly wet without runoff (600~900 L water per ha)

## **Irrigation: 1: 500-600**

1 part chelate concentrate : 500~600 parts irrigation water (Working concentration: 0.17%~0.20%)

Anti-clogging emitters (1.5~2.2 L/h)- 120-mesh disc filter

Fertigation Protocol:

Clear water 10min → Fertilizer ≥40min → Flushing 20min

## Benefit Case

### Citrus Orchard

Item	Conventional Inorganic	Amino TE
Yield ↑	Baseline	28%
Quality Premium	15% fruit crack	Brix ↑ 2°, Shelf life +7 days