

# MIST KUMA



**MIST-KUMA®**, MIST-KUMA® is a mineral nanoparticle dispersion containing nitrogen from various sources: urea,  $\text{KNO}_3$ , and  $\text{Ca}(\text{NO}_3)_2$ .

The combination of nitrogen, calcium, magnesium, and sulfur creates a synergistic effect that supports crop development. It can be applied at any crop stage without causing stress to the plant.

- Calcium improves the absorption of other nutrients
  - Nitrogen is essential for cell division and plant growth
  - Potassium regulates water within the plant (osmotic regulation)
  - Silicon strengthens plant tissue, making it less susceptible to pest damage
- Recommended for grasses and citrus crops.

#### **BENEFICIAL EFFECTS:**

1. Rapid assimilation of calcium, enhancing transport of all nutrients.
2. High-efficiency nitrogen delivery.
3. Improved nitrogen absorption and reduced losses from leaching and volatilization ( $\text{NH}_3$ ).
4. Can be applied at any crop stage.

#### **GUARANTEED CONTENT:**

Nitrogen: 3.5%  
Phosphorus: 1%  
Potassium: 3%  
Sulfur: 2%  
Carbon: 3.4%  
Calcium: 4.4%  
Iron: 0.2%  
Boron: Traces  
Magnesium: Traces

#### **PHYSICOCHEMICAL PROPERTIES:**

pH: 6.5 at 20°C  
Density: 1.22 – 1.35 g/cc  
Reaction / Index: NEUTRAL

#### **STORAGE CONDITIONS**

- Store between -5°C and 35°C.
- Keep in a cool, shaded place.
- Avoid vapor formation.

#### **VOLUME:**

15 L Bag-in-Box.

#### **PACKAGING:**

Shipping unit: 56 units per pallet (840 L)  
→ Easy to transport by light truck  
→ Coverage: 400+ hectares

#### **APPLICATION & DOSAGE:**

##### **Extensive, Industrial, Fruit Crops.**

- Apply via drench or fertigation at the plant base.

##### **Intensive Crops – Fertigation Application.**

- General horticulture: 4 to 6 L/ha per application.
- Multiple applications recommended: 30-40 L/ha per crop cycle.

#### **USE RECOMMENDATIONS:**

- Remove the bag from the box and homogenize before use
- If phase separation is observed, shake vigorously to restore proper condition

#### **Spray Application:**

- Clean sprayer thoroughly before use
- Mix the recommended dose with 50% of the total water volume, with continuous agitation
- Use 80-100 L/ha of water
- Maintain spray pressure between 2 and 3 bar (do not exceed 3 bar)
- Spray speed: 18-20 km/h
- Use hollow cone nozzles
- During refills, maintain at least 15% of tank volume before re-mixing
- After application, rinse equipment with 200 L of clean water

#### **Aéreo:**

Prepare a mother solution by mixing the recommended dose with 50% of the irrigation water  
Add remaining water under constant agitation  
Avoid air blowers  
Rinse the equipment and lines with clean water after application

#### **PRECAUTIONS & WARNINGS:**

The company guarantees the declared content and concentration. However, factors beyond our control—such as mix preparation, application method, and weather—can affect performance.  
The user is responsible for any damage caused to crops, soil, or equipment due to partial or total non-compliance with these instructions.  
Use only when agronomically needed and do not exceed recommended dosages.  
Application under technical agronomic guidance is strongly recommended.  
Los productos Mist son compatibles con la mayoría de productos agroquímicos, sin embargo se recomienda efectuar pruebas en un recipiente previo a realizar la mezcla.