

MIST Zn



MIST-Zn® is a dispersion of mineral nanoparticles with an optimal concentration of zinc, potassium, silicon, and sulfur.

Zinc is an essential micronutrient for plant growth and reproduction, involved in numerous metabolic processes such as protein, carbohydrate, and hormone synthesis, chlorophyll and auxin formation, and enhances resistance to low temperature stress.

Potassium helps maintain ionic balance and participates in the translocation of micronutrients.

Silicon improves plant resistance to biotic and abiotic stress.

Sulfur, like zinc, is a structural component of organic compounds and is involved in protein synthesis.

BENEFICIAL EFFECTS:

1. Rapid assimilation of calcium, improving the transport of other nutrients.
2. Regulates local pH and base saturation.
3. Direct contribution of zinc, which is crucial for photosynthesis, hormonal balance, protein synthesis, and nitrogen metabolism for amino acid production.

GUARANTEED CONTENT AND CONCENTRATION:

Zinc (*): 3.6%

(*) *Insoluble mineral*

PHYSICOCHEMICAL PROPERTIES:

pH: 6.0 at 20°C

Density: 1.2 – 1.4 g/cc

Reaction / Index: NEUTRAL

STORAGE CONDITIONS:

- Store between -5°C and 35°C to maintain product integrity.
- Keep in a cool place away from direct sunlight.
- Avoid vapor formation.

VOLUME:

15 L Bag-in-Box

PACKAGING:

Shipping unit: standard pallet of 56 boxes (840 L), suitable for light truck transport and enough to cover over 400 hectares.

APPLICATION & DOSAGE:

Drench at plant base or fertigation.

200 to 800 cc/ha per application.

Crop	Applications	L / Ha per application	Total L / Ha	Timing
Soybean	2	0.2 to 0.8	0.4 to 1.6	V4-V6 and R1
Corn	2	0.2 to 0.8	0.4 to 1.6	V4-V6
Wheat	2	0.2 to 0.8	0.4 to 1.6	Full tillering and booting stage
Barley	2	0.2 to 0.8	0.4 to 1.6	Full tillering and booting stage
Sunflower	2	0.2 to 0.8	0.4 to 1.6	At 2 pairs of leaves
Pastures	2	0.2 to 0.8	0.4 to 1.6	Beginning of the season
Rice	2	0.2 to 0.8	0.4 to 1.6	At the start of tillering and at the beginning of panicle formation
Cotton	2	0.2 to 0.8	0.4 to 1.6	3 to 4 weeks post emergence

Intensive Crops – Fertigation Application.

200 to 1000 cc/ha per application.

USAGE RECOMMENDATIONS:

- Remove the bag from the box and homogenize before use.
- Content may separate into phases; vigorous shaking will restore optimal conditions.

Spray Application:

- Clean sprayer before use.
- Prepare the solution by mixing the recommended dose with 50% of the total water volume, under constant agitation.
- Use 80-100 L/ha of water, with pressure between 2 and 3 bar (not exceeding 3 bar).
- Maintain application speed between 18-20 km/h.
- Use hollow-cone nozzles.
- In case of refills, do not empty the tank completely—keep at least 15% of volume before re-mixing.
- After application, rinse the system with 200 L of water, then perform standard cleaning.

Fertigation:

- Prepare a mother solution by mixing the recommended dose with 50% of irrigation water volume.
- Add the rest under continuous agitation.
- Avoid using air blowers.
- After application, flush equipment and lines with clean water.

PRECAUTIONS & WARNINGS:

This product is guaranteed to contain the declared concentrations. However, factors such as mixing, application method, and weather conditions may influence its performance and are beyond the manufacturer's control.

The user is responsible for any damage to crops, soil, or applicators due to incorrect use or non-compliance with label instructions.

Use only when needed and do not exceed recommended doses.

Application is recommended under agronomic guidance.