

# Sysstem™ -ZN

## Helping Nature Work™

Sysstem™-ZN is a foliar zinc fertilizer that can be used at all plant growth stages to correct zinc deficiencies. Sysstem™-ZN is particularly effective at bud-break, pre-bloom, and post-harvest when plant demand for zinc peaks. The elemental zinc in Sysstem™-ZN is linked to a unique trans-locating mobility-ion that enhances the nutrient uptake and mobility within the plant. Sysstem™-ZN's special form makes it significantly more effective than standard zinc foliar products that have limited uptake and plant availability.

Zinc plays many important functions within the plant. It regulates various hormone functions that are necessary to ensure proper bud break, root and vascular development and optimal leaf size. Field results show applying Sysstem™-ZN early season can dramatically increase leaf size, maximizing total photosynthesis surface area – a key factor in a plant's ability to support and size a heavy crop load. Because calcium transportation occurs through the vascular system, zinc plays a critical role in maximizing calcium levels, which are critical in building cell wall thickness, an essential factor in improved disease tolerance, fruit firmness and overall crop quality. Sysstem™-ZN is part of Agro-K's revolutionary Sysstem™ foliar line. Sysstem products are designed to work together to maximize crop quality. They are compatible with each other and most pesticides, making them easy to integrate into spray programs.

### Guaranteed Analysis

Zinc (Zn) - 8%

### Derived From

Zinc derived from Zinc Carbonate

### Availability

2.5 and 250 gallon

### Directions For Use

Sysstem-ZN is intended for foliar use only. Foliar: Apply 1 to 5 quarts per acre with sufficient water for thorough coverage. Spray in early morning or late afternoon. Do not apply during the "sunlight" hours when air temperature is above 85° F/30° C. Foliar fertilization is intended to supplement standard ground fertility programs and will not by itself provide all nutrients normally required by agricultural crops. If you have any questions regarding mixing or application rates contact Agro-K before using this product. Sysstem-ZN is compatible with many fertilizers and pesticides, but compatibility checks are recommended before mix. If mixing Sysstem-ZN with other products, dilute Sysstem-ZN in a full spray tank first before adding other products. Sysstem-ZN should not be mixed with pesticides or other products that are sensitive to low pH solutions.

## Suggested Uses

### Tomatoes, Peppers, Cucumbers

Apply 1 to 4 quarts per acre per application. Apply the first application 7 days after transplanting, thinning or at second true leaf stage. Apply subsequent applications at 10-14 day intervals as needed to correct deficiencies or supplement nutritional requirements.

### Lettuce, Spinach and Other Leafy Vegetables as well as Broccoli, Cauliflower and Other Brassica Varieties

Apply 1 to 2 quarts per acre per application. Apply the first application 7 days after transplanting, thinning, or at second true leaf stage. Apply one or two subsequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

### Corn, Beans and Peas

Apply 1 to 4 quarts per acre per application. A first application can be ground applied with starter fertilizers if carefully mixed in a dilute solution (contact Agro-K for more information). Otherwise, apply the first application at the second or third leaf. Apply one to two subsequent applications at 10 to 14 day intervals or as needed to supplement nutritional requirements.

### Strawberries

Apply 1 to 4 quarts per acre per application. Apply the first application 7-10 days after transplanting. Reapply at 7-14 day intervals through first bloom. Sysstem™-ZN is compatible with Sysstem™-MG and can be applied together. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

### Potatoes, Onions and Other Vegetable Root, Bulb or Tuber Crops

Apply 1 to 5 quarts per acre per application. Apply the first application 2-3 weeks post emergence. Apply a subsequent application at hooking, plus two more applications at 14 day intervals.

### Nut Crops

Apply 1 to 4 quarts per acre per application. Apply first application at bud break. Apply a subsequent application pre-bloom. Reapply Sysstem™-ZN within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-ZN is compatible with Sysstem™-MG and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

### Blueberries

Apply 1 to 4 quarts per acre per application. Apply first application post-bloom just as leaves are developing rapidly. Apply 1 or 2 subsequent applications at 7-10 day intervals. Reapply Sysstem™-ZN within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-ZN is compatible with Sysstem™-MG and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

### Plums, Peaches, Cherries and Other Stone Fruits

Apply 1 to 4 quarts per acre per application. Apply first application post-bloom just as leaves are developing rapidly. Apply 1 or 2 subsequent applications at 7-10 day intervals. Reapply Sysstem™-ZN within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-ZN is compatible with Sysstem™-MG and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

### Apples, Pears and Other Pome Fruits

Apply 1 to 4 quarts per acre per application. Apply first application at green tip or bud break. Apply 1 to 2 subsequent applications pre-bloom. Reapply Sysstem™-ZN within 2-3 weeks

post harvest to prepare tree and buds for next season. Sysstem™-ZN is compatible with Sysstem™-MG and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

### Citrus and Avocados

Apply 1 to 4 quarts per acre per application. Apply first application pre-bloom. Apply subsequent applications post-harvest.

### Grapes

Apply 1 to 4 quarts per acre per application. Apply first application between budbreak and 6" of shoot growth. Apply 1-2 subsequent applications between early shoot development and bloom. Reapply Sysstem™-ZN within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-ZN is compatible with Sysstem™-MG and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

### Raspberries, Blackberries and Other Caneberries

Apply 1 to 4 quarts per acre per application. Apply first application after bud break and reapply pre-bloom. Reapply Sysstem™-ZN within 2-3 weeks post harvest to prepare tree and buds for next season. Sysstem™-ZN is compatible with Sysstem™-MG and can be applied together with magnesium both during spring and post-harvest applications. Peak plant demand timing for magnesium is similar to that of zinc and applying both nutrients simultaneously can be beneficial.

