



How Wolf Trax DDP Micronutrients compare to granular sulphates

Deliver more value to your farmer customers!

As this bulletin shows, Wolf Trax DDP Micronutrients allow more consistent blends, more thorough and even application across the field, and effectively feed the plant as proven by plant uptake trials.

Wolf Trax DDP Micronutrients are an important innovation in micronutrient technology. DDP Micronutrients differ from traditional granular sulphate micronutrients in several ways. The following explores three ways DDP Micronutrients offer important improvements over granular sulphate micronutrients:

1. How evenly micronutrient is spread in the field
2. Evenness of the blend itself (i.e. does the micronutrient blend evenly throughout the whole load), and
3. Plant uptake: how well does the nutrient get into the crop.

The first two issues are dealt with in Table 1. Note that Wolf Trax DDP Micronutrients blend more consistently, and stay in the blend more evenly than the granular micronutrient. Coating your dry fertilizer blend with Wolf Trax DDP Micronutrients also result in many more distribution points in the field.

Evenness of application across the field and blend consistency

Feature	Wolf Trax DDP	Granular micronutrients
Evenness of spread through a field	Wolf Trax DDP's cover the field with hundreds of points of access to the micronutrient per square foot. RULE OF THUMB: If you know that your crop is accessing your N or P, you know too that it is accessing the Wolf Trax DDP Micronutrient that surrounds the N or P particle	Using granular micronutrients as part of your blend can mean "sparse" coverage across the field. In other words, even relatively high rates (e.g. 5 lbs/acre) of granular micronutrients, when spread on the field, leave spaces of many, many inches between granules. Individual crop seedlings may not access a zinc granule that is several inches away until the seedling gets large.
Evenness of blend	Wolf Trax DDP Micronutrients coat evenly and adhere tightly to prills or granules of dry fertilizer. Blend transport trials show variation from point to point in a fertilizer load of less than 3 percent	Using granular micronutrients can mean great difficulty getting an even blend. Some formulations of Zinc Sulphate are 50 to 60 percent heavier than N, P and K, resulting in the micronutrient falling out of the blend. One blend transport trial showed a 50 percent variance in zinc levels from point to point in the blend

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How well do Wolf Trax DDP Micronutrients “feed the crop” vs. granular micronutrients?

Results of an independent field trial are shown below. The replicated trials were conducted on a high pH soil, and compared the use of Wolf Trax Zinc DDP to a zinc sulphate. Treatments were as follows:

- Untreated check: 100 lbs/acre of 0-25-60 and 200 lbs/acre urea
- Treatment 1: 100 lbs/acre of 0-25-60 and 200 lbs/acre urea coated with Wolf Trax Zinc DDP
- Treatment 2: 100 lbs/acre of 0-25-60 and 200 lbs/acre urea, blended with 5 lbs/acre of granular zinc sulphate

Plant tissue uptake was measured at 7, 14 and 28 days after emergence.

	Plant uptake in soybeans (Zinc ppm in tissue)*		
Treatment	Day 7	Day 14	Day 28
Wolf Trax Zinc DDP	46a	26a	27a
Granular zinc	37b	23ab	21b
Untreated	37b	22bc	18c

	Plant uptake in corn (Zinc ppm in tissue)*		
Treatment	Day 7	Day 14	Day 28
Wolf Trax Zinc DDP	55a	35a	20a
Granular zinc	35b	29b	18a
Untreated	34b	30b	20a

	Plant uptake in peas (Zinc ppm in tissue)*		
Treatment	Day 7	Day 14	Day 28
Wolf Trax Zinc DDP	92a	50a	31a
Granular zinc	60b	35b	32a
Untreated	59b	33b	30a

**Numbers followed by the same letter within a column are not significantly different*

Conclusion: Note that in this trial, coating fertilizer with Wolf Trax DDP Micronutrients resulted in greater uptake in soybeans, corn and peas.

You and Wolf Trax....Growing Forward® together.

For more information on the Wolf Trax DDP family of Innovative Micronutrients, please call 204-237-9653, or visit us at www.wolftrax.com.