

GROWFORCE® 3-0-0 ZMC

NUTRITION

High analysis zinc, manganese, copper and nitrogen suspension designed to ensure plants get a healthy and vigorous start

25.9% Zn, 9.8% Mn, 3.0% Cu, 1.2% N

Benefits of Growforce® 3-0-0 ZMC

- Accelerates early vegetative growth
- Promotes healthy and vigorous root systems, which can access essential nutrients from the soil
- Slow release formulation ensures continued fertilization of young crop
- Product suitable for seed dressing, foliar or soil application
- Extremely safe for application at all stages of plant growth due to nutrient forms
- Compatible with many other chemicals, seed and foliar treatments
- Has micro-fine particles ensuring even coverage and effective plant uptake
- Pre-mixed in carefully controlled ratios so the crop receives the essential nutrients specific to its growth stage
- High concentration reduces quantity of product needed and saves on packaging and freight costs

THE ROLE OF ZINC, MANGANESE AND COPPER

Zinc forms an enzyme, which maintains CO₂ levels for photosynthesis. Zinc plays an important role in production of auxins.

Manganese is an enzyme activator that helps with nitrate assimilation. It is primarily involved with photosynthesis and chlorophyll production.

Copper is an activator of several enzymes in plants, and it plays a key role in vitamin A production.

Deficiency Symptoms of Zinc

- Chlorosis
- Stunting
- Dieback
- Rosetting
- Small irregular leaves
- Reduced yields
- Short, thin stems
- Yellow stripes beside midrib "Tram tracks"

Deficiency Symptoms of Manganese

- Deficiencies lead to leaf speckling and susceptibility to root diseases

Deficiency Symptoms of Copper

- Flag and young leaf twisted
- Tip growth of leaf necrotic
- Poor grain development/formation
- Blind grain sites on head
- Stunted plant with poor yield

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Product Characteristics

Specific Gravity: 1.93 **Color:** Brown Green Suspension

Analysis	International (w/w%)
Zinc (Zn) as oxide	25.9
Manganese (Mn) as carbonate	9.8
Copper (Cu) as oxide	3.0
Nitrogen (N) as urea	1.2

Directions for Use

Agitate contents well before dilution. Suitable for application by:

 Foliar Spray	 Aerial Spray	 Seed Dressing
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CROP	Rate/A	COMMENTS
ROW CROPS - Foliar Barley, Canola, Cereals, Corn, Cotton, Legumes, Oats, Rice, Sorghum, Soybeans, Triticale & Wheat	1 - 2 pints.	Ideal time for application is at 3 - 4 leaf stage but may also be applied later
COTTON - Foliar	1 - 2 pints.	Apply at 3 - 4 leaf or when deficiency symptoms or leaf analysis dictate
ONIONS - Foliar	1 - 2 pints.	Apply when sufficient leaf area (4 -6 leaf stage) with follow up applications during bulking if necessary
POTATOES - Foliar	1 - 2 pints.	Apply from 1 week after full crop emergence and also during tuber bulking (after petiole analysis). Repeat application at 10 - 14 day intervals for moderate to severe deficiencies.
VINES - Foliar Table Grapes Wine Grapes	1 - 2 pints.	First application: shoots 4" long. Second application: 5% flowering. Do not exceed 1 : 30 concentration.