



YaraVita™ GRAMITREL

Spring Cereals

A new innovation for crop nutrition



High Spec

YaraVita™ GRAMITREL is a highly formulated suspension concentrate containing:

ANALYSIS

Key micronutrients:

- 6.4% w/v = 64 g/l nitrogen (N)
- 15% w/v = 150 g/l magnesium (Mg)
- [25% w/v = 250 g/l magnesium oxide (MgO)]
- 15% w/v = 150 g/l manganese (Mn)
- 5.0% w/v = 50 g/l copper (Cu)
- 8.0 % w/v = 80 g/l zinc (Zn)

YaraVita™ GRAMITREL is rich in key nutrients and very tank mixable:

- Easy to use flowable
- Immediately dispersed no dissolving necessary
- Exceptional tank mixability
- Very rainfast
- Very safe
- Very effective
- Available in 10 litre pack



Key nutrients for foliar application to optimise yield in cereals

Correct grain development

- Cu role in lignification enables pollen release increasing fertilization and reducing the incidence of 'blind grain'
- Optimum zinc status during seed set can result in a increased grain number and size

Mg Cu Mn Zn

Cu Zn

Good plant structure

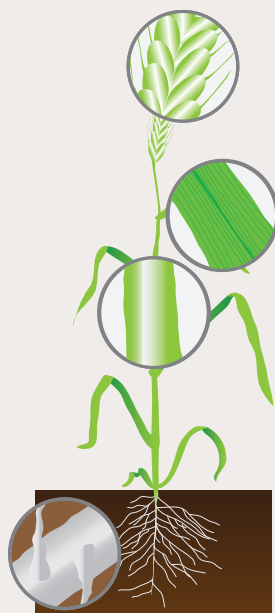
- Optimum Cu promotes lignification, decreasing the susceptibility of lodging, particularly with high N supply
- Optimum Zn promotes auxin levels, which results in optimum canopy development

Cu Zn

Healthy roots

- Optimum Mn ensures high lignin content in the roots which increases resistance to root infecting pathogens

Mn



Mg Mn Zn

Green leaves

- Mg is a key component of chlorophyll, optimum supply drives photosynthetic activity in the leaf
- Mn and Zn play key roles in the production of chlorophyll and photosynthesis

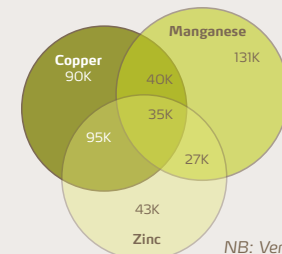
Cereal micronutrient deficiencies*



*Number of soils deficient in each nutrient. Source Yara Megalab, UK soils, 2009 to 2014 (700,000).

- 65% of copper deficient soils are also deficient in manganese or zinc, or all three
- 44% of manganese deficient soils are also deficient in copper or zinc, or all three
- 79% of zinc deficient soils are also deficient in copper or manganese, or all three

Overlap of cereal micronutrient deficiencies



NB: Venn diagram not to scale

CEREALS:

Megalab statistics clearly support the use of Gramitrel

- This is particularly true for situations where there is a requirement for copper or zinc because more often than not these two deficiencies are linked to deficiencies of other key cereal micronutrients
- Manganese deficiency does occur more frequently in isolation but even for this nutrient 44% of the time it is linked to the deficiency of another key cereal micronutrient.

Application rates and timings:

Cereals: 1 to 3 l/ha from the 2 leaf stage to second node detectable (Zadok's G.S. 12 to 32). Repeat applications at 10 to 14 day intervals, within this timing, if necessary. In addition, 1 l/ha from second node detectable to flag leaf fully emerged (Zadok's G.S. 32 to 39). Water rate: 50 to 200 l/ha.

For further information please contact:

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