

FASAL



(Member of MSME- Govt. of India)



Agro Chemical: Importer/Marketing & Mfg:

Micronutrients:

There are 7 essential plant nutrient elements defined as micronutrients [boron (B), zinc (Zn), manganese (Mn), iron (Fe), gypsum (CaSO₄), Bentonite (b)]. They constitute in total less than 1% of the dry weight of most plants. The following nutrient (literature) focuses primarily on the soil characteristics for the micronutrients.

Boron (B)

Fine Borax: 10.5% 3 kg per acer land

For any given crop when boron is recommended, a high rate of boron may be required on: **3 KG**

acidic soils

Soils that are high in water pH and/or calcium content

Soils with low organic matter content

Soils where boron is broadcast versus boron being either banded or foliar applied

Types of Boron-containing Commercial Fertilizers:

Chemical Formula % B Content Borax Na₂B₄O₇ · 10H₂O 11 Boric Acid H₃BO₃ 16 Solubor Na₂B₄O₇ · 4H₂O + Na₂B₁₀O₁₆ · 10H₂O 20

Zinc (Zn)

Z-21: 21% zn 10% 5 to 10 kg per acer land

Zinc is included in the Standard Soil Test. The level of soil zinc is "insufficient" or "low" when extractable zinc is less than 2.0 pounds per acre and the soil pH is less than 6.1, and when extractable zinc is less than 2.5 pounds per acre and the soil pH greater than 6.0.

Soil pH Extractable Zinc lbs per acre < 5.9 > 5 < 6.0 > 11 < 6.1 > 21 < 6.2 > 31 < 6.3 > 41 > 6.2 > 51



Manganese (Mn)

Super Mn: 30.5% Mn 12% Sulphur 2 to 5 kg per acer land

Manganese is included in the Standard Soil Test. Manganese deficiency is most likely to occur in soybean and cotton on soils in Soil Groups 1, 2 and 3 in Area 5 and on some poorly drained soils in Area 4 when the soil pH is high (>6.0 or 6.5, depending on soil type).



Iron (Fe)

Fine Fe-19: 12% iron 9 % sulphur 4 to 10 kg per acer land

In most cases, plant iron deficiency is not due to the lack of iron in the soil, but due to soil conditions that reduce its plant availability, such as:

- High soil pH
- Low soil oxygen levels caused by either soil compactions or water-logging
- Prolonged periods of excessive soil moisture
- High temperatures
- Low soil phosphorus, copper, manganese, and zinc levels



Gypsum (Caso4)

Super Alkasol: 21% calcium, 18% sulphur, 4% palas (K2O), 2% magnesium-10 to 16 kg per acer land

Gypsum (Calcium Sulphate) is among the best-known soil conditioners, and it helps farmers to improve their soil structure. This type of fertilizer contains all the nutrients required for your plants' growth. Gypsum gets deep in the soil layers very quickly and provides the needed calcium and sulphur.



Magnesium (Mg)

Super Mag: 9.6% Magnesium , 10% Sulphur-10 kg per acer land

High magnesium (Mg) is an essential element for plant growth, its use in a fertilizer program for most of the state, the emphasis is justifiable because when management properly, most soils contain sufficient Mg to meet crop needs. If limited in the diet, animals can develop grass tetany. Therefore, some special consideration is given to the Mg status of crops.

Magnesium is the central core of the chlorophyll molecule in plant tissue. Thus, if Mg is deficient, the shortage of chlorophyll results in poor and stunted plant growth.

Magnesium also helps to activate specific enzyme systems. Enzymes are complex substances that modify, or break down, compounds as part of a plant's normal metabolism.

Bentonite (b)

Bento Cube: Granules natural enzyme, humic acid, amino acid and natural mineral-10 kg per acer land

Bentonite is an excellent natural sealant mostly used for landfills, sealing recreational ponds, and sewage lagoons. It is one of the most economical methods for treating porous soils. It absorbs a high amount of water and is able to swell 15 times. It is used as liner material, binder, and water-proofing building materials. Bentonite is also recognized as an external fertilizer.



Sulphate Mono Hydrate 33%
k (Sodium Tetra Borate) (B: 10.5%)
er Sulphate 24 %
onium Molybdate Mo: 52)
Acid (B-17%)
Oxide

ated EDTA

ated Calcium 9%
ated Copper 12%
ated Magnesium 6%
ated Manganese 6%
ated Zinc 12%
ated Iron 12%
ODHA 6%



Sulphur based

Sulphur dusting powder (8
Sulphur WDG 90% / WP 80
Bentonite Sulphur Granula
Sulphur Liquid 25%

Potassic based

Potassium Chloride
Potassium Sulphate
Potassium Schoenite





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