













AG MICRONUTRIENTS

Hydroponic grade European chelated micro fertilisers

水溶性欧洲螯合微量肥料

Little but vital











All crops need not only nutrients from macronutrient fertilisers, but also micronutrients such as iron, zinc, manganese, boron, copper and molybdenum for a complete supply of nutrition to obtain a balanced growth and best yield despite of low requirements. For that reason, Fertitrade offers a series of premium quality EDTA chelated micronutrient fertilisers, such as:-

-  EDTA Fe 13.2%
-  EDTA Zn 14%
-  EDTA Mn 13%
-  EDTA Cu 14%
-  EDTA Ca 10%
-  MICRONutrients
-  ABC
-  Hibor
-  Ammonium
-  Molybdate

to the growers in Malaysia and overseas.

用量虽小，功效俱大

农作物不仅是需要大量元素的营养，也是需要微量元素如铁，锌，锰，硼，铜及钼以提供完善的养分给予作物均衡的成长及最佳的产量，虽然其需求量小。因此，丰登推出了一系列高品质螯合微量元素肥料如：

-  EDTA Fe 13.2%
-  EDTA Zn 14%
-  EDTA Mn 13%
-  EDTA Cu 14%
-  EDTA Ca 10%
-  MICRONutrients
-  ABC
-  Hibor
-  Ammonium
-  Molybdate

给予国内外的农友们。

Advantages of Fe to crops 铁的用处

- enzyme component for nitrogen fixation and reduction 固氮及还原反应酶的组成成分
- enzyme component for electron carriers in oxidation and reduction reactions in respiration 在呼吸作用氧化及还原反应的电子传递酶的组成成分
- chlorophyll and lignin formation 叶绿素及木质素的形成

Advantages of Zn to crops 锌的用处

- hormone, auxin, chlorophyll and proteins formation 植物生长素激素，蛋白质及叶绿素的形成
- enzyme component for energy production 电子传递酶的组成成分

Advantages of Mn to crops 锰的用处

- nitrogen metabolism process 氮代谢
- photosynthesis process 光合作用
- enzyme component and catalyst 多种酶的组成成分及活化剂
- regulation of oxidation and reduction functions 调节氧化还原作用

Advantages of Cu to crops 铜的用处

- chlorophyll formation 叶绿素的形成
- respiration process 呼吸作用
- enzyme activator 激活酶
- catalyst for chemical reaction in few crop growth processes 含有催化植物成长过程中化学反应的功能

Advantages of B to crops 硼的用处

- improves carbohydrate and calcium mobility 提升作物碳水化合物及钙的输送
- pollination process 授粉
- root growth 根部生长
- flowers and fruits formation 花果的形成
- cell division 细胞分解
- protein synthesis 蛋白质的制造

Advantages of Mo to crops 钼的用处

- component of nitrate reductase for nitrogen assimilation process in crops especially legumes 对于豆科类作物在硝酸还原过程中硝酸还原酶的成分
- component of nitrogenase and vital in stabilising chlorophyll 固氮酶成分及稳定叶绿素作用
- enhances crop's resistance against weather and disease stresses 增强作物的抗气候严峻及抗病性

EDTA Chelated Micronutrients

Ethylenediaminetetraacetate, abbreviated as EDTA, is a ligand and chelating agent that binds the metal ions with the purposes of making these metal ions lose their cationic properties and are not trapped by the components in soil. This means that these nutrients are always available for plant absorption. In addition, the benefits of chelated micronutrients include high water solubility, better compatibility in a wider range of soil/medium pH, consistent quality and better resilience to microorganisms.

EDTA 螯合微量元素

Ethylenediaminetetraacetate, 简称为 EDTA, 是一种用来联结金属离子的配体及螯合剂以让这些金属离子失去阳离子属性及不被土壤里的元素捆锁。这表示这些养分随时存在并容易被植物吸收。此外, 螯合态微量元素的好处如: 高水溶性, 能在更广酸碱值范围的土壤或媒介被吸收, 稳固的品质及对微生物更具抗拒能力。

Single Element Micronutrients 单元素微量元素

Product 产品	Description 说明	Physical form 形态	Color 颜色	Origin 原产国	pH 酸碱值	pH Stability 酸碱度稳定性	Solubility 水溶性	Electrical Conductivity EC 电导量
Ag EDTA Fe 13.2%	EDTA chelated, contains 13.2% Fe ³⁺	Micro Granules	Brown	Poland	6.0 ± 1.0 (10 g/L)	1.5 – 6.5	Max. 600 g/L	0.34 ± 0.1 mS/cm (1 g/L)
Ag EDTA Zn 14%	EDTA chelated, contains 14% Zn ²⁺	Micro Granules	White		7.0 ± 1.0 (10 g/L)	2.0 – 10.0	Max. 1000 g/L	0.48 ± 0.1 mS/cm (1 g/L)
Ag EDTA Mn 13%	EDTA chelated, contains 13% Mn ²⁺	Micro Granules	White - Yellow		6.0 ± 1.0 (10 g/L)	3.0 – 10.0	Max. 800 g/L	0.50 ± 0.1 mS/cm (1 g/L)
Ag EDTA Cu 14%	EDTA chelated, contains 14% Cu ²⁺	Micro Granules	Blue		7.0 ± 1.0 (10 g/L)	1.5 – 10.0	Max. 1200 g/L	0.48 ± 0.1 mS/cm (1 g/L)
Ag EDTA Ca 10%	EDTA chelated, contains 10% Ca ²⁺	Micro Granules	White		7.0 ± 1.0 (10 g/L)	5.0 – 10.0	Max. 900 g/L	0.43 ± 0.1 mS/cm (1 g/L)

EXCLUSIVE MICROGRANULATION TECHNOLOGY

Multiple Element Micronutrients 多元素微量元素

Product 产品	Description 说明	Physical form 形态	Color 颜色	Origin 原产国	pH 酸碱值	Solubility 水溶性	Electrical Conductivity EC 电导量
Ag MICRONutrients	EDTA chelated compound, contains 3.0% Fe, 1.5% Mn, 0.5% Zn, 1.5% Cu, inorganic salt 0.75% B & 0.02% Mo	Powder	Green	Germany	5.0 - 9.0 (20 g/L)	Max. 150 g/L	0.78 ± 0.1 mS/cm (1 g/L)
Ag ABC	EDTA chelated compound, contains 4.00% Fe, 4.04% Mn, 1.5% Zn, 1.4% Cu, 0.03% Co & inorganic salt 0.48% B, 0.11% Mo & 5.35% Mg	Micro Granules	Green	Poland	6.0 ± 1.0 (10 g/L)	Max. 150 g/L	0.65 ± 0.1 mS/cm (1 g/L)

Ag Hibor 高硼

Hibor is a refined sodium borate type of boron that has the highest level of water solubility among all types of boron in the market, such as calcium sodium borate, calcium borate and boric acid. Ag Hibor is formulated to spread rapidly in the solution (<75 micron) even at low temperature, leaving behind very minimum residue. By combining the highest boron content (B₂O₃ min. 57%) with maximum dispersion and solubility in water, Ag Hibor is the best and economical choice for fertigation and foliar spraying.

高硼是在众多市场硼肥种类如钙钠硼，钙硼及硼酸当中，水溶性最好的精炼钠硼种类。高硼在低温的液体里也能快速解散 (<75微米)，留下极少残留物。结合了高含量的硼(氧化硼最少57巴仙)及最佳的溶解散开能力，高硼绝对是滴灌及叶面喷施最佳及经济性的选择。



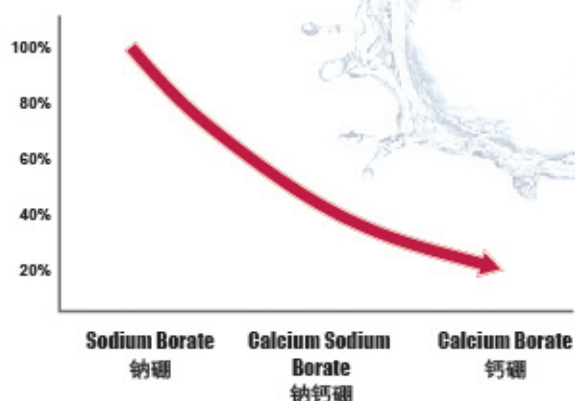
Origin : USA

Ag Hibor vs Boric Acid 高硼 vs 硼酸

	Ag Hibor 高硼	Boric Acid 硼酸
Type of Boron 硼种类	Sodium Borate 硼砂	Boric Acid 硼酸
Water Solubility 水溶性	Max. 150 g/L water	Max. 47.2 g/L water
Boron Content (%) 硼含量 (%)	approx. 20.5	approx. 17
pH 酸碱值 (5% solution 溶液)	approx. 7.3	approx. 3.7
Electrical Conductivity EC 电导量 (0.1% solution 溶液)	0.53 ± 0.1 mS/cm	0.12 ± 0.1 mS/cm
Crystallisation Effect 结晶	Minimum 极少	Can cause crystallisation and blockage in fertigation piping system 可导致结晶并堵塞水管



Water Solubility 水溶性



AG Ammonium Molybdate

钼酸氨

AG Ammonium Molybdate (54% w/w) is a highly water soluble crystallised powder for fertigation and foliar spraying. Although the requirement is low, its supply cannot be neglected.

钼酸氨(54%w/w)是一种用于滴灌或叶面喷施高水溶性的细晶粉。虽然需求量低，但它的供应是不可或缺的。



Origin : India

Technical specification 技术指标

Mo	54%	Electrical Conductivity EC (0.1% solution)	0.74 ± 0.1 mS/cm
pH (1% solution)	5.5 ± 1.0	Water solubility (20°C)	Max. 228 g/L

Recommended Usage 使用建议

Product 产品	Main Usage 主要用途		
	Soil Application 土壤施放	Foliar Spraying 叶面喷施	Fertigation 滴灌
AG EDTA Fe 13.2%	Fruit trees: 5 - 10 g/tree	0.3 - 1.0 g/L	100 - 300g / 25kg Unit A
AG EDTA Zn 14%	Oil Palms: 30 - 40 g	0.3 - 1.0 g/L	40 - 100g / 25kg Unit B
AG EDTA Mn 13%	-	0.3 - 1.0 g/L	80 - 100g / 25kg Unit B
AG EDTA Cu 14%	Oil Palms: 30 - 40 g	0.3 - 0.4 g/L	9 - 12g / 25kg Unit B
AG EDTA Ca 10%	-	0.3 - 1.0 g/L	-
AG MICRONutrients	Fruit trees: 5 - 10 g/tree	0.3 - 1.0 g/L	100 - 200g / 25kg Unit B
AG ABC	Fruit trees: 5 - 10 g/tree	0.3 - 1.0 g/L	100 - 200g / 25kg Unit B
AG Hibor	-	0.3 - 1.0 g/L	40 - 200g / 25kg Unit B
AG Ammonium Molybdate	-	0.2 - 0.5 g/L	2 - 13g / 25kg Unit B

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