



## AG MACRONUTRIENTS

Hydroponic grade straight specialty macro fertilisers

水溶性单元特殊大量肥料

## Most trusted and reliable brand in Malaysia

The application of fertigation/hydroponic system in agriculture is increasingly popular in Malaysia's agriculture sector and it acts as the pioneer towards Agriculture 4.0. This method of combining both fertilisation and irrigation simultaneously can result in better crop yield and quality for the growers in comparison with the traditional method. The factors that affect the crop yield and quality are selection of high quality fertilisers and well balanced nutrition program. Due to these reasons, Fertitrade is committed to offer various high quality and efficient water soluble macronutrients fertilisers under the brand of **Ag-tech**, eg:-

- **Ag** Calcium Nitrate
- **Ag** MKP
- **Ag** Potassium Nitrate
- **Ag** Magnesium
- **Ag** K Sol
- **Ag** Magnesium Nitrate

to the growers in Malaysia and oversea to provide a balanced nutrition to all crops.

## 马来西亚最信任及可靠的品牌

在马来西亚农业里使用滴灌或水培法来耕种已普遍化，甚至将成为朝向农业4.0的先驱。此水与肥同时结合并用的耕种法比传统种法能让耕种者得到更丰盛的产量及更佳的品质。其中能影响作物品质和产量的因素有高品质肥料的挑选及均衡的施肥方案。因此，豐登有义务在 **Ag-tech** 品牌旗下提供各类高效优质的水溶性大量元素肥料如：

- **Ag** Calcium Nitrate
- **Ag** MKP
- **Ag** Potassium Nitrate
- **Ag** Magnesium
- **Ag** K Sol
- **Ag** Magnesium Nitrate

给予国内外的农友们以提供作物均衡的养分。

## Advantages of N-NO<sub>3</sub> to crops

### 硝酸氨的好处

- fast crop growth 快速成长
- always available and absorbs easily by plants 易得到及容易被植物吸收
- quick response of crops to soil and foliar application 叶面喷施或土壤施放后植物快速反应
- enhances uptake of positively charged cations like Ca, K and Mg 提高阳离子如钙，钾和镁的吸收
- minimum soil acidification effect after soil application 土壤施放后极少酸化土壤

## Advantages of P to crops 磷的好处

- root growth and development 根部成长及扩展
- nucleic acid, ADP and ATP formation 核酸，二磷酸腺甘及三磷酸腺甘的形成
- flowers blossom 花序形成

## Advantages of K to crops 钾的好处

- affects the uptake of carbon dioxide and water management in crops 影响作物的二氧化碳吸收及水分控制
- enhances resistance against drought 提高对干燥环境的抵抗力
- protein and starch synthesis 蛋白质及糖分的制造
- fruit growth 果实的成长

## Advantages of Mg to crops 镁的好处

- important component of chlorophyll 叶绿素主要成分
- improves energy transfer within the crops 提升作物内能量的转移
- controls protein synthesis and cell structure 控制蛋白质和细胞组织的形成

## Advantages of Ca to crops 钙的好处

- enhances cell wall strength, water management and post-harvest storage ability 提升细胞壁的坚韧度，水分处理及收割后储存能力
- enhances tolerance to fungi infection and plant resistance to stress conditions 增加对病毒虫害及环境压力的抵抗力
- improves crop quality 提升作物品质

## Advantages of S to crops 硫的好处

- improves cell wall structure 增强细胞壁的组织
- protein synthesis 蛋白质形成
- enhances fruit flavour 提升果实的风味

# Ag Calcium Nitrate

15.5%N 26% CaO

Ag Calcium Nitrate is a specialty fertiliser in white granular form that dissolves quickly and easily in water. Ag Calcium Nitrate is imported from a prestigious calcium nitrate manufacturer in China and exclusively distributed by Fertitrade. Most of the nitrogen in this fertiliser is in nitrate form and free from chloride. Ag Calcium Nitrate contains negligible heavy metal content ( $\leq 1$ ppm) and suitable to combine with the other specialty fertilisers, except those containing high level of phosphate and sulphate.

Ag Calcium Nitrate (硝酸钙) 是一种白色颗粒及快速易溶的特殊/滴灌肥。Ag Calcium Nitrate 是从中国一间驰名的硝酸钙产家进口及由豐登独家在马来西亚代理。此肥大部分的氮元素是硝酸氮及含无氯化物。Ag Calcium Nitrate 含有微少的重金属含量 ( $\leq 1$ ppm) 及适合与其它特殊/滴灌肥齐用。除了含有高磷及硫的肥料。



Fertigation/Hydroponic  
滴灌/水培  
19 - 24kg / 25kg Set A



Foliar Spraying  
叶面喷施  
1 - 3 g/L since vegetative stage,  
every 7 - 10 days



## Characteristics 特性

Total Nitrogen (N)	15.5%	Ca	19.0%
Nitrate (NO <sub>3</sub> <sup>-</sup> )	14.4%	Max. Solubility (20°C)	1,200 g/L
Ammoniacal (NH <sub>4</sub> )	1.1%	EC (1g/L at 25°C)	1.2 mS/cm
Calcium Oxide (CaO)	26.3%	pH (10% solution)	6.0

# Ag Potassium Nitrate

13-0-46

Ag Potassium Nitrate is a specialty fertiliser in crystalline powder form. Ag Potassium Nitrate has a NK ratio of 13:46 and suitable for crops with high K requirement. Ag Potassium Nitrate contains nitrogen in nitrate-NO<sub>3</sub><sup>-</sup> form. The crops are able to achieve high absorption rate of nitrate-NO<sub>3</sub><sup>-</sup> and K<sub>2</sub>O due to the synergistic effect between those two nutrients. Ag Potassium Nitrate is also free from chloride, contains negligible heavy metal content ( $\leq 1$ ppm) and suitable to use with the other specialty fertilisers.

Ag Potassium Nitrate (硝酸钾) 是一种细晶粉状的特殊/滴灌肥。Ag Potassium Nitrate 含有氮钾比列13:46及适合于需要高钾的作物。Ag Potassium Nitrate含有硝酸氮态 (NO<sub>3</sub><sup>-</sup>) 的氮肥。因硝酸氮与氧化钾 (K<sub>2</sub>O) 含有协同作用, 作物能对这两种养分达到最佳的吸收。Ag Potassium Nitrate 含无氯化物, 微少的重金属含量 ( $\leq 1$ ppm) 及适合与其它特殊/滴灌肥齐用。



Fertigation/Hydroponic  
滴灌/水培  
7 - 14kg / 25kg Set B



Foliar Spraying  
叶面喷施  
1 - 3 g/L during fruiting stage,  
every 7 - 10 days



## Characteristics 特性

Nitrate (NO <sub>3</sub> <sup>-</sup> )	13.7%	Max. Solubility (20°C)	315 g/L
Potassium Oxide (K <sub>2</sub> O)	46.3%	EC (1g/L at 25°C)	1.3 mS/cm
Potassium (K)	38.5%	pH (10% solution)	6 - 8

# Ag MKP 0-52-34

Ag MKP (Mono Potassium Phosphate) is a specialty fertiliser in crystalline powder form. Produced with an exclusive proprietary technology, Ag MKP is a high purity and solubility product. Ag MKP is free from chloride, sodium and impurities, making it compatible with all kind of fertigation systems and foliar spraying. Due to the absence of nitrogen, Ag MKP is suitable for use in stages that requiring less nitrogen input, eg. rooting and flowering. Ag MKP also exerts a buffering effect which stabilizes solution pH and can be used along with pesticides. Ag MKP contains negligible heavy metal content ( $\leq 2$ ppm) and suitable to use with other specialty fertilisers, except those containing high level of calcium and concentrated magnesium solution.

Ag MKP (磷酸一氢钾) 是一种细晶粉状的特殊/滴灌肥。由产家专有技术制造, Ag MKP 是一种高纯度及水溶性的产品。Ag MKP 含无氯化物, 钠及杂物, 促使它适用于所有灌溉系统及叶面喷施。由于不含氮肥, Ag MKP 适合所有不需要高氮的阶段如根部生长及开花期。Ag MKP 含有微少的重金属含量 ( $\leq 2$ ppm) 及适合与其它特殊/滴灌肥齐用, 除了含有高钙及浓缩镁的溶液。



Fertigation/Hydroponic  
滴灌/水培  
3 - 5kg / 25kg Set B



Foliar Spraying  
叶面喷施  
1 - 3 g/L during flowering stage,  
every 7 - 10 days

# Ag Magnesium 16% MgO 13% S

Ag Magnesium (Magnesium Sulphate Heptahydrate) is a specialty fertiliser in crystalline granule form. Ag Magnesium is a highly water soluble and quality product, supplying Magnesium and sulphur to enhance the synthesis of chlorophyll and amino acids. Ag Magnesium is free from chloride, contains negligible heavy metal content ( $\leq 15$ ppm) and practically ideal to use with the other specialty fertilisers. If concentrated Ag Magnesium solutions are prepared, it should not be dissolved with fertilisers containing phosphate (eg: Ag MKP) nor calcium (eg: Ag Calcium Nitrate).

Ag Magnesium (七水硫酸镁) 是一种结晶颗粒状的特殊/滴灌肥。Ag Magnesium 是一种高品质及水溶性的产品, 提供镁与硫以提升叶绿素及氨基酸的形成。Ag Magnesium 含无氯化物, 含有微少的重金属含量 ( $\leq 15$ ppm) 及几乎适合与其它特殊/滴灌肥齐用。浓缩的 Ag Magnesium 溶液不能与含有磷(如: 磷酸一氢钾)及钙(如: 硝酸钙)的肥料齐用。



Fertigation/Hydroponic  
滴灌/水培  
6 - 13kg / 25kg Set B



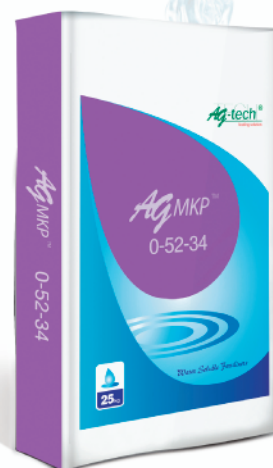
Foliar Spraying  
叶面喷施  
1 - 3 g/L all growing stages,  
every 7 - 10 days



Soil Application  
土壤施放  
Durian: 0.5 - 1.0 kg/round (2 rounds in a  
month before flowering)



Soil Application  
土壤施放  
Oil Palm: 1.2kg/palm/year



## Characteristics 特性

Phosphate (P <sub>2</sub> O <sub>5</sub> )	52.0%	Water Soluble Phosphate (P <sub>2</sub> O <sub>5</sub> )	51.5%
Phosphorus (P)	22.5%	Max. Solubility (20°C)	230 g/L
Potassium Oxide (K <sub>2</sub> O)	34.0%	EC (1 g/L @ 25°C)	0.7 mS/cm
Potassium (K)	28.2%	pH (1% solution)	4.2 - 4.5



## Characteristics 特性

Magnesium Oxide (MgO)	16.0%	Max. Solubility (20°C)	700 g/L
Magnesium (Mg)	9.7%	EC (10g/L @ 25°C)	4.04 mS/cm
Sulphur (S)	13.0%	pH (5% solution)	7.5 - 8.0

# Ag K Sol 50% K<sub>2</sub>O 18% S

Ag K Sol (Sulphate of Potash) is a specialty fertiliser in white powder form. Ag K Sol is suitable to substitute any other source of potassium fertiliser available in the market. Ag K Sol is ideal for all crop and growth stages, when high K input is needed. Ag K Sol also contains low chloride, negligible heavy metal content ( $\leq 2\text{ppm}$ ) and suitable to mix with the other fertilisers, except those containing high level of calcium. Due to its very low salt index, it is suitable for fertilisation programs of crops grown in high salinity soil. In alkaline soils, the application of Ag K Sol is able to reduce the pH at root zone and induces better absorption of phosphorus and micronutrients.

Ag K Sol (硫酸钾) 是一种白色粉状的特殊/滴灌肥。Ag K Sol 适合顶替市场上的一切钾肥。Ag K Sol 适用于所有高钾需求农作物及成长阶段。Ag K Sol 含低氯化物，微少的重金属含量 ( $\leq 2\text{ppm}$ ) 及适合与其它特殊/滴灌肥齐用，除了含有高钙的肥料。由于含低盐值，Ag K Sol 适合于种在高盐土壤作物的施肥方案。在高碱性的土壤，Ag K Sol 的施放能减少在根部区的酸碱值，促使最佳的磷及微量元素吸收。



Fertigation/Hydroponic  
滴灌/水培  
0 - 1kg / 25kg Set B



Soil Application  
土壤施放  
Durian: 1.5kg/tree during  
fruiting stage



## Characteristics 特性

Potassium Oxide (K <sub>2</sub> O)	50.0%	Chlorine (Cl)	1.5%
Potassium (K)	42.0%	Max. Solubility (20°C)	114.5 g/L
Sulphur Trioxide (SO <sub>3</sub> )	46.5%	EC (1 g/L @ 25°C)	1.57 mS/cm
Sulphur (S)	18.0%	pH (1% solution)	3.0 - 6.0

# Ag Magnesium Nitrate

## 15% MgO 10% NO<sub>3</sub>

Ag Magnesium Nitrate is a fully water soluble specialty fertiliser. Ag Magnesium Nitrate contains nitrogen in the form of nitrate-NO<sub>3</sub><sup>-</sup>. The crops are able to achieve high absorption of nitrate-NO<sub>3</sub><sup>-</sup> and MgO due to the synergistic effect between those two nutrients. Ag Magnesium Nitrate is also free from chloride, contains negligible heavy metal content and suitable to use with the other specialty fertilisers. However, precipitation may occur if mixed with high phosphorus products.

Ag Magnesium Nitrate (硝酸镁) 是一种全水溶性的特殊/滴灌肥。Ag Magnesium Nitrate 含有硝酸氮态 (NO<sub>3</sub><sup>-</sup>) 的氮肥。因硝酸氮与氧化镁 (MgO) 含有协同作用，作物能对这两种养分达到最佳的吸收。Ag Magnesium Nitrate 含无氯化物，微少的重金属含量及适合与其它特殊/滴灌肥齐用，除了高磷产品因沉淀可能会发生。



Fertigation/Hydroponic  
滴灌/水培  
0 - 5kg / 25kg Set B



Foliar Spraying  
叶面喷施  
1 - 3 g/L for all crop stages,  
every 7 - 10 days



## Characteristics 特性

Magnesium Oxide (MgO)	15.0%	Max. Solubility (20°C)	1,250 g/L
Magnesium (Mg)	9.4%	EC (1g/L @ 25°C)	0.79 mS/cm
Nitrate (NO <sub>3</sub> <sup>-</sup> )	10.0%	pH (1% solution)	4.0 - 7.0

Imported & Distributed By:



**FERTITRADE (M) SDN. BHD.**

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