

Polysulphate

硫酸钾钙镁



A Prolonged Release SOP Based
Natural Mineral Fertiliser

Origin : United Kingdom

Certified for organic use 有机认证:



Product Introduction

产品介绍



Polysulphate is a prolonged release crushed polyhalite, a natural mineral found deep underground beneath the North Sea close to UK coast. It is formed during evaporation of prehistoric area. Polysulphate is simply mined, crushed, screened, loaded and shipped worldwide. There are no chemical processes. It is ready to use straight from the mine on farmer's fields. The product is also approved for use in organic farming. Due to its neutral pH, it can be applied as an enrichment for soil conditioner.

硫酸钾钙镁是通过史前的蒸发过程中所形成，再经由英国北海区域邻近的海底所开采而来的天然长效杂卤矿石肥料。此产品在制作过程中无添加任何化学加工，而是通过开采、压碎及筛选即可运送到世界各地供农友们使用。硫酸钾钙镁也获认证并可用于有机耕作。基于pH值属于中性，它亦可用于调理土壤。

Nutrient Compositions

营养成分

K ₂ O : 14%	SO ₃ : 48%
MgO : 6%	B : 200 - 300ppm
CaO : 17%	Fe, Zn & Cu



Granular 粒状
2 - 4mm



Standard 粉状
0.6 - 0.85mm

Physical & Chemical Properties

特征

Characteristics

Descriptions

Mineral Name 矿石名	Polyhalite 杂卤石
Chemical Formula 化学式	$K_2Ca_2Mg(SO_4)_4 \cdot 2H_2O$
Purity 纯度	85% - 95%
Solubility 溶性	Water soluble 水溶性
pH 酸碱性	Neutral 中性
Salt index 盐指	< 5%
Chloride content 氯指	< 5%

Benefits 特点



Cations in sulphate form
硫酸态阳离子



Prolong nutrient release
慢性释放养分



Neutral pH
for all soil types
中性



Water soluble
水溶性



Low carbon footprint
低碳排放产品



Low chloride &
salt index
低盐低氯



Improve yield &
crop quality
提高产量品质



Reduce leaching
少量养分流失

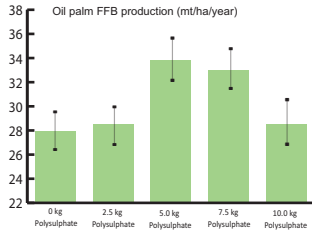


Compatibility
可与多类肥料齐放

Proven Trial Result 试验结果

Yield Improvement 提升产量

Oil palm - mature area 油棕成熟区



- ✓ Highest yield at 5 kg polysulphate
5公斤硫酸钾钙镁即达至最高产量
- ✓ Improvement in average bunch weight
提升果串的平均重量
- ✓ Improvement in number of bunches
增加果串的数量

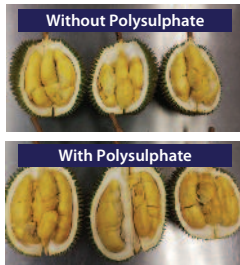
Paddy 稻谷



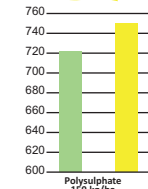
- ✓ Better tolerance to lodging 更耐倒伏
- ✓ Taller plant 更高的谷物
- ✓ Higher grain weight 谷粒更重
- ✓ More consistent, even and rounder shaped grain
更一致、更均匀，更圆润的谷粒
- ✓ More grain filling, stronger panicles 更丰满的谷粒，更强的圆锥花序

Improve Crop Quality & Shelf Life 提升作物品质及存放期

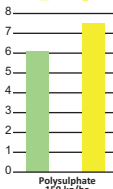
Durian 榴梿



Stronger onion-sulphur odour

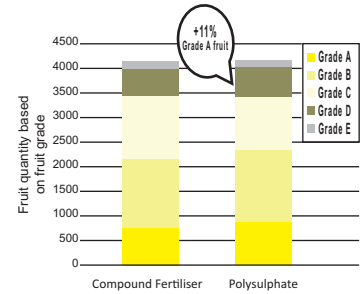


20.7% increase in Fat content



- ✓ Higher redness & carotenoid content 更高的胡萝卜素及红度
- ✓ Significant firmer pulp 果肉更扎实
- ✓ Higher fat content and lower carbohydrate 更高的脂肪成分及低碳水化合物
- ✓ Stronger aroma from higher volatile sulfur compound (VSC) 更浓郁的香气

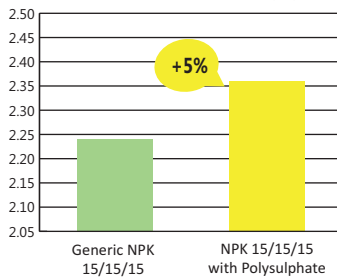
Pineapple 黄梨



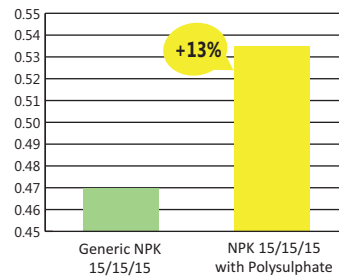
- ✓ Improved shelf-life 增长存放期
- ✓ Higher brix, sweeter fruit 更高的糖度，更甜的味道

Better Nutrient Use Efficiency 提高养分利用率

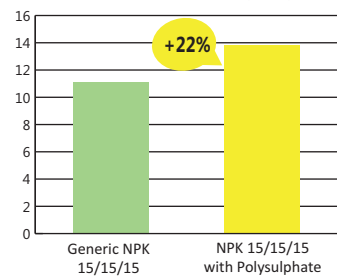
Nitrogen in dry matter (%)



Phosphorus in dry matter (%)



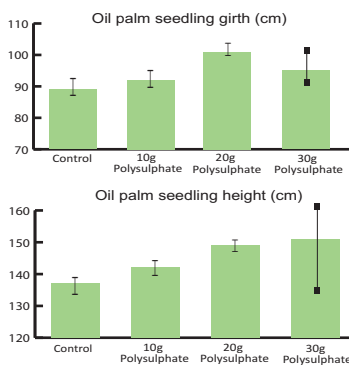
Boron in dry matter (ppm)



- ✓ Higher nitrogen and phosphorus uptake 提高氮磷吸收率
- ✓ Additional uptake of boron due to availability of boron in polysulphate 提供额外的硼肥
- ✓ Lesser losses to the environment 减少养分流失

Improve Vegetative Biomass 增加植物生物物质

Oil palm - main nursery 油棕苗期



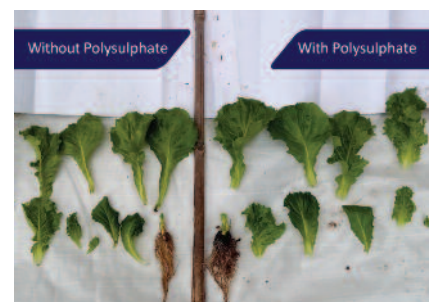
- ✓ Higher vegetative growth with merely additional 20g of polysulphate
区区的20克已促使更佳的生长

Chrysanthemum 菊花



- ✓ Better roots, bigger stems, greener leaves and more uniform growth
更蓬勃的根部，更粗壮的茎，更翠绿的叶片及更均匀的成长率

Leafy vegetables 叶菜



- ✓ Better root growth 最佳的根部发展
- ✓ Larger and better quality leaves 更大及更佳品质的叶片

I Fertiliser Recommendations 施肥推荐

Plantation Crops 园丘作物



Oil Palm 油棕
3 - 5 kg/tree/year



Coconut 椰树
3 - 5 kg/tree/year



Rubber 橡胶树
0.5 - 1.0 kg/tree/year



Cocoa 可可树
2 - 4 kg/tree/year

Fruit Crops 水果类



Durian 榴槤
3-5kg/tree/season
During flower initiation



Pineapple 黄梨
6 - 12gm/shrub
10th Day after transplant &
Before flower initiation



Melon 西瓜蜜瓜
30 - 50gm/planting point
During creeping stage
(20th - 30th Day)



Papaya 木瓜
1 - 2kg/tree/year
2 months once



Citrus 橘类
1 - 2kg/tree/year
2 months once



番石榴
1 - 2kg/tree/year
2 months once



Banana 香蕉
0.5 - 1.0kg/tree/cycle
2 months once



Dragon fruit 火龙果
1 - 2kg/tree/year
2 months once

Vegetables 蔬菜类



Brinjal 茄子
7 - 10gm/tree
2 months once
after flowering



Cucumber 青瓜
7 - 10gm/plant
2 months once
after flowering



Chili 辣椒
7 - 10gm/plant
2 months once
after flowering



Sweet Potato 薯类
300kg/ha
Storage root initiation
(30th Day after transplant)



Tomato 番茄
7 - 10gm/plant
2 months once
after flowering



Ginger 姜
150 - 200kg/ha
2 months once starting
3rd month after transplant



Corn 玉蜀黍
200 - 250kg/ha
30th Day after transplant

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