Polysulphate

# Trial



- S — 48% $SO_3$ (19.2% S)
- K — 14% $K_2O$ (11.6% K)
- Mg — 6% MgO (3.6% Mg)
- Ca — 17% CaO (12.2% Ca)

## Honey pomelo *(Citrus maxima)* on a lateritic soil

Polysulphate fertilizer is a soluble, easily-absorbed, cost effective answer to crop nutrition, containing four key plant nutrients: sulphur, potassium, magnesium and calcium

ICL Fertilizers

Polysulphate

## When

- Tree age: 5 years
- Harvest: October, 2017

## Where

Fujian, China

## Crop

Honey pomelo *(Citrus maxima)*

## Soil type

Lateritic soil

## Measurements

- Yield
- Fruit quality parameters
- Spring shoot parameters

**Mined in the UK, ICL is the first – and only – producer in the world to mine polyhalite, marketed as Polysulphate.**

For more information consult www.polysulphate.com/contact for your contact in your region.

**www.polysulphate.com**



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Fertilizerplus
Premium plant nutrition from ICL Fertilizers

## Objective

To investigate the effect of Polysulphate on the yield, quality parameters and spring shoot parameters of honey pomelo.

## Treatments

This trial consisted of three treatments with 12 plants per treatment. The treatments were: (1) farmers' practice (pig manure + NPK fertilizer at a total rate of 1,528, 1,016 and 1,246 kg/ha of N, $P_2O_5$ and $K_2O$ respectively, split in 5 applications), (2) Optimized fertilization (organic fertilizer + NPK fertilizer at a total rate of 862, 631, 744, 69 and 49 kg/ha of N, $P_2O_5$, $K_2O$, CaO and MgO respectively, split in 4 applications), and (3) Optimized fertilization + Polysulphate (organic fertilizer + NPK fertilizer + Polysulphate at a total rate of 862, 631, 1038, 468 and 175 kg/ha of N, $P_2O_5$, $K_2O$, CaO and MgO respectively, split in 4 applications).

## Results

- Compared with farmers' practice, Polysulphate application increased the number of spring shoots by 23% and the biomass of spring shoots by 19.7%.
- Polysulphate application increased the fruit yield by 6.9% when compared to the farmers' practice, and by 1.2% when compared to the optimized fertilization treatment.
- Polysulphate application increased the quality parameters, specially the fresh weight per fruit, flesh weight and fruit diameter.
- Compared with farmers' practice, Polysulphate treatment reduced the N, P and K inputs by 44, 38 and 17% respectively, thus decreasing fertilizer costs by 11% and increasing farmers' income by 7% when compared to farmers' practice.