



Polysulphate[®]

Trial

Potato (*Solanum tuberosum*) on a sandy soil

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

S 48% SO₃
(19.2% S)

K 14% K₂O
(11.6% K)

Mg 6% MgO
(3.6% Mg)

Ca 17% CaO
(12.2% Ca)



When

2016



Where

Vredepeel,
The Netherlands



Crop

Potato
(*Solanum tuberosum*)



Soil type

Sandy soil



Measurements

Tuber yield
Tuber size



Objective

To prove that the use of Polysulphate results in higher tuber yield and quality of ware potatoes compared to current grower standard practices.

Treatments

- The use of Polysulphate at planting, at a rate of 1,053 kg/ha, was tested as a source of magnesium, a nutrient absent of the current standard practice.
- 65 kilograms per hectare of Mg as magnesium oxide (MgO), was supplied by Polysulphate.

Results

- The use of Polysulphate resulted in a significantly higher potato yield compared with the control (SOP) treatment.
- The larger significant differences were observed on marketable tubers (+2.2%), and especially with larger tubers (+3.3%).
- No significant effect was observed on tuber density, an indicator of industrial quality.

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

Polysulphate

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