



# Polysulphate



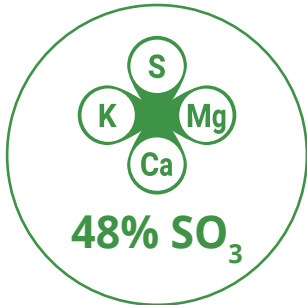
Multi-nutrient sulphate fertiliser

# Polysulphate™

Polysulphate is a naturally occurring multi-nutrient sulphate fertiliser, which improves crop quality and delivers growers increased yields and profits. It contains four major plant nutrients: sulphur, potassium, magnesium and calcium – all in the sulphate form and all fully available to the crop.

Located in the North York Moors national park is the world's first and only polyhalite mine, operated by Cleveland Potash. Polyhalite is mined in the UK at Boulby from a depth of 1,200m underneath England's North Sea and is processed into Polysulphate.

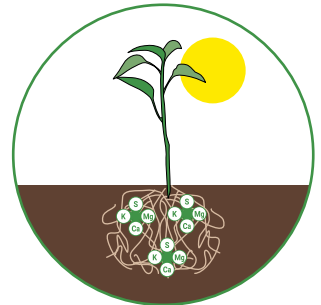
This natural and organically approved 4-in-1 fertiliser is available to farmers. All tests are conclusive – Polysulphate provides the best value for farmers and as a product that is low in chloride, it is suitable for all types of crops.



Ideal straight sulphur fertiliser with 48% SO<sub>3</sub> and with the additional benefits of providing potassium (K), magnesium (Mg) and calcium (Ca) all in a sulphate form in one application



Prolonged nutrient release rate, reduced risk of sulphate losses through leaching. This makes Polysulphate ideal for an early spring application and wherever there is potential for leaching



Fully soluble, with all nutrients available for plant uptake. Tests conclude that Polysulphate improves crop yields and improves the health of the crop



Multi nutrient sulphate product, containing four essential macronutrients and additional micronutrients



A versatile product that offers an opportunity to apply sulphate separately from nitrogen; excellent spreading characteristics mean Polysulphate spreads evenly up to 36m



Delivers superior yields, improved quality, increased profitability. Enhances crop health and vigour. Suitable for all kind of crops and all types of soils

## What is Polysulphate™?

Polysulphate is derived from a naturally occurring mineral called Polyhalite with the chemical formula  $K_2Ca_2Mg(SO_4)_4 \cdot 2H_2O$

This gives the following product analysis;

- **48%  $SO_3$**  (19.2% S). Sulphur is an essential constituent of proteins and also helps improve the efficiency of other nutrients like nitrogen and phosphate
- **14%  $K_2O$**  (12% K). Potassium, vital for improved crop health, quality and yield
- **6%  $MgO$**  (3.6% Mg). Magnesium, essential for photosynthesis
- **17%  $CaO$**  (12.2% Ca). Calcium, for strong healthy crops and crucial for cell division



Available in a granular and standard grade; it is suitable as a straight sulphate fertiliser for direct application or as a raw material source to add essential sulphur to NPK production or blends



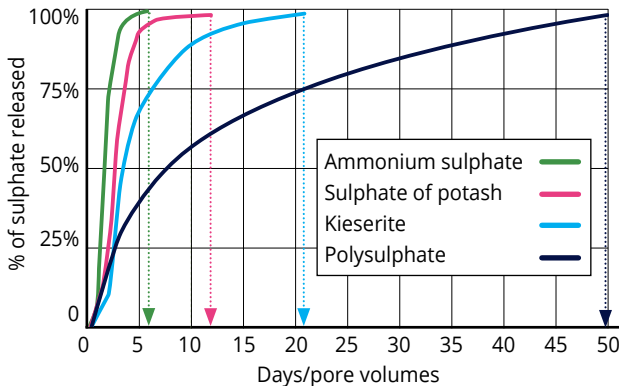
A natural product, ideal for all crops including chloride-sensitive ones; low salinity index, neutral pH and no acidifying effect. Polysulphate is also approved for organic agriculture



UK produced fertiliser; Polysulphate has a low carbon footprint and is environmentally friendly

# Trials using Polysulphate™

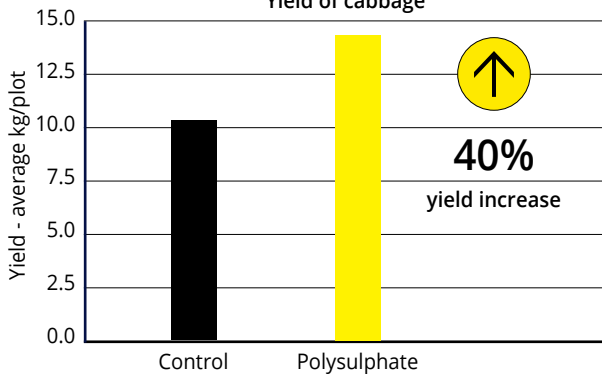
Release of sulphate from Polysulphate vs. other sources



Polysulphate delivers some sulphate available straight after application, but continues to release most of its sulphate into the soil solution over several weeks for uptake as the crop grows. Other sources can release all their sulphate in a matter of days. Polysulphate can be applied in good time in the late winter/spring with much less risk of sulphate loss through leaching.

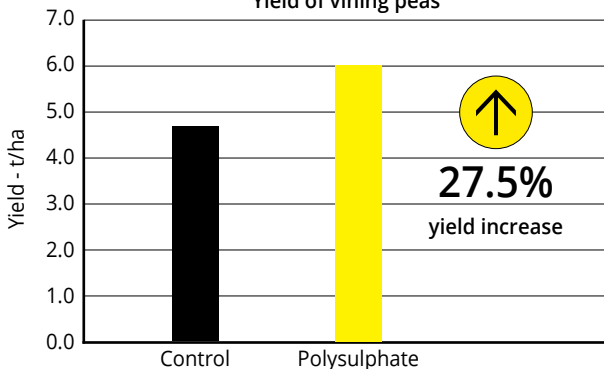


Yield of cabbage



A field trial of cabbage in Lincolnshire clearly demonstrated the beneficial effect of Polysulphate, with a yield increase of about 40%.

Yield of vining peas



A field trial of Polysulphate for vining peas grown for freezing showed a yield increase of more than 1 t/ha, resulting in an increase in value of the crop in excess of £550/ha.



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## General recommendation





Crop	Rates (kg/ha)
Cereals / Grains	100-125
Peas / Beans	150-175
Brassicas	200-250
Grass	50-100
Potatoes	100-200
Vegetables	100-250
Allium	200-250

Polysulphate is the ideal sulphur fertiliser containing 48%  $\text{SO}_3$  plus the additional benefit of supplying potassium, magnesium and calcium all in the sulphate form.

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

For more information visit  
**[www.polysulphate.com](http://www.polysulphate.com)**  
or ask your local supplier for details.

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