

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)

Broccoli (*Brassica oleracea* var. *italica*)

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



When

2016



Where

France, Kervignac



Crop

Broccoli (*Brassica oleracea* var. *italica*)



Soil type

Sandy loam soil



Measurements

Yield

Nutrients content in the head

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.php for your contact in your region.

www.polysulphate.com

Polysulphate is a registered trademark of ICL.

Poly S K Mg Ca
sulphate

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Objective

To investigate the effect of the application of single and split applications of Polysulphate on the yield of broccoli.

Treatments

This field trial consisted of three treatments in four replicates:

- Farmer's fertilizer practice (control)
- Polysulphate applied 15 days after planting at a rate of 150 kg/ha.
- Polysulphate applied 15 and 40 days after planting (split application) at a rate of 150 kg/ha each (total 300 kg/ha).

Results

- The split Polysulphate application (2 x 150 kg/ha) resulted in the best response. The single application had no effect on the crop.
- The yield of the split Polysulphate treatment improved by 13% over the control, this means 1.75 mt/ha yield increase based on 25,000 plants/ha.
- The average head size increased from 534 g in the control to 604 g with the two Polysulphate applications.
- Potassium, magnesium and calcium content in the heads with the split Polysulphate application increased by 5%, 1.7% and 23% respectively compared to the control.

