

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)

Soybean (*Glycine max*) on a clay soil

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



When

- Sowing: October 2016
- Harvest: February 2017



Where

Lucas do Rio Verde,
Mato Grosso state, Brazil



Crop

Soybean (*Glycine max*)



Soil type

Clay soil (*Oxisol*)



Measurements

Yield



Objective

Evaluate the effect of Polysulphate as a source of sulphur for soybean in Brazil's Cerrado region.

Treatments

This randomized block trial consisted of six treatments and four replications. The treatments were combinations of MAP, KCl, Polysulphate, single superphosphate and pastilled elemental sulphur (S) to supply 80 kg/ha P_2O_5 , 80 kg/ha K_2O and 25 kg/ha of S, except in the control treatment where no S was applied. MAP and single superphosphate were applied in furrow; KCl was broadcast before planting; Polysulphate and elemental sulphur were applied both in furrow and broadcast before planting according to each treatment.

Results

- Polysulphate is a highly viable source of sulphur for soybean fertilization.
- Polysulphate fertilizer increased soybean yield by 16% compared with fertilization without sulphur.
- Using Polysulphate as the source of sulphur increased soybean yield by 9.6% compared with single superphosphate.
- A yield improvement of 14% was recorded with Polysulphate compared with pastilled elemental sulphur.

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

Polysulphate is a registered trademark of ICL.

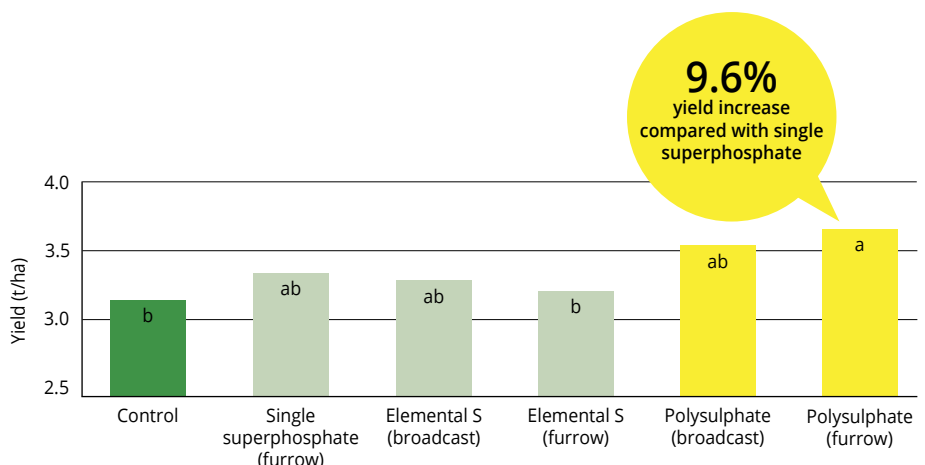
Polysulphate 

fertilizers.sales@icl-group.com

[Twitter.com/fertilizerplus](https://twitter.com/fertilizerplus)

[YouTube.com/c/Polysulphate-Fertilizer](https://www.youtube.com/c/Polysulphate-Fertilizer)

[Facebook.com/Polysulphate](https://www.facebook.com/Polysulphate)



* All treatments were fertilized with 80 kg/ha of P_2O_5 and 80 kg/ha of K_2O applied as MAP in the furrow, and 80 kg/ha of K_2O applied as KCl in broadcast. Sulphur treatments had a dose of 25 kg S/ha.

* Different letters within columns indicate statistically significant differences

* From research funded by the International Potash Institute www.ipipotash.org.

Fertilizerplus 
Premium plant nutrition from ICL Fertilizers