Polysulphate®

Trial

Maize
(Zea mays)
on a sandy loam 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% SO_3 (19.2% S)
K	14% K_2O (11.6% K)
Mg	6% MgO (3.6% Mg)
Ca	17% CaO (12.2% Ca)

ICL

Fertilizerplus®
Premium plant nutrition from ICL Fertilizers

When

2017

Where

Mercedes, Corrientes, Argentina

Crop

Maize *(Zea mays)*

Soil type

Sandy loam soil

Measurements

Yield

Objective

To compare, under field conditions, the agronomic and economic efficiency of fertilizer bulk blends that include Polysulphate with other current formulations.

Treatments

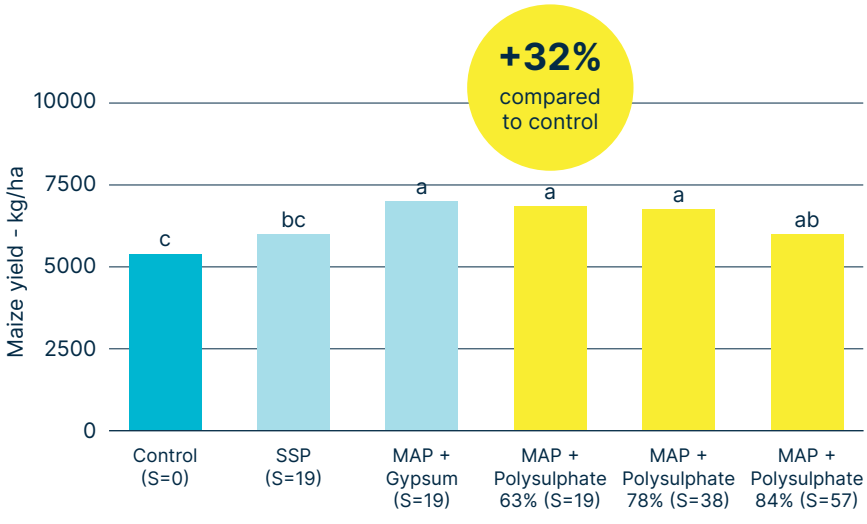
The treatments were allocated in a randomized complete block design with four replications.

All treatments were based on different sources of S that were applied at sowing and with a single rate of P (30 kg P_2O_5 ha^{-1}), in addition to other fertilizer combinations, including a control with no sulphur. Gypsum and single super phosphate (SSP) treatments were included, since they were the common sources of S with comparable rates of S to Polysulphate.

The crop received a broadcast fertilization with N as urea at V4-V6 stage in addition to the N applied through the MAP starter, thus providing 100 kg N ha^{-1}.

Results

There were no statistical differences between Polysulphate and gypsum. Polysulphate gave higher yield as compared with SSP.



** Different letters above bars indicate significant differences among treatments (p<0.05)*

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

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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