

Fertilizerplus<sup>®</sup>



Fertilising

**Maize**

with Fertilizerplus products

**ICL**

# Guidelines for balancing your nutrient strategy with FertilizerpluS

FertilizerpluS is a range of high quality granular fertilisers produced by ICL. All products are Polysulphate® based.

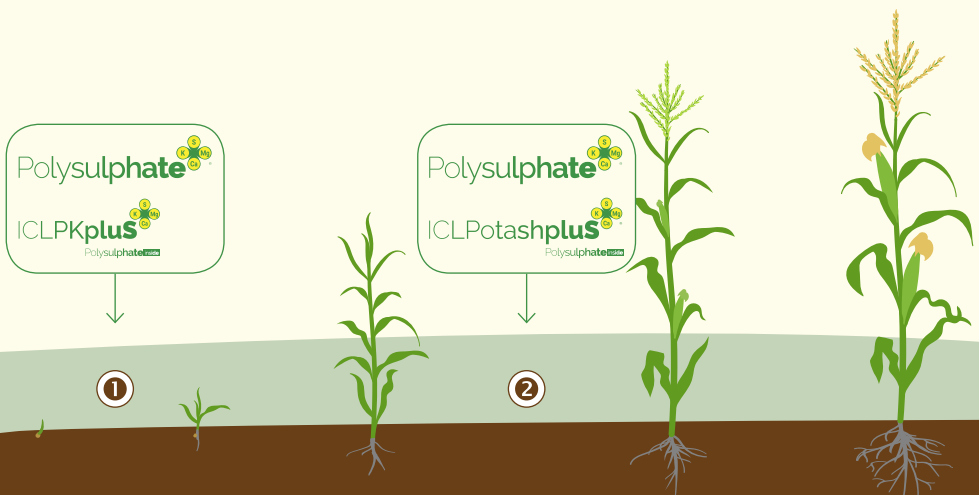
ICL has done extensive research into how best to grow maize crops. In our trials, we have found that with an application of sulphur you can improve the uptake of nitrogen, improve dry matter and with added magnesium and calcium we have seen an increase in root development.

For good uptake of nitrogen from the soil you need adequate potassium and sulphur. However, most soils within the UK and the rest of Europe are now deficient in sulphur because of the Clean Air Act and subsequent reduction in depositions from atmospheric pollution.

Crops treated with sulphur from the FertilizerpluS range have shown yield and quality improvements at harvest.

## FertilizerpluS recommendations

- Polysulphate ① applied at drilling at a rate of 100kg/ha\*
- ICL PKpluS ① can be applied at drilling to meet phosphate, potassium and sulphur needs of the crop
- Polysulphate, PotashpluS and PKpluS ② can be blended into your fertiliser products or applied separately as needed



*\*Remember to consider the extra potassium from Polysulphate in your fertiliser calculations*



## Nutrient offtake (removal) maize

	Offtake kg/t	Offtake kg/ha	
	Fresh Weight	Fresh weight 40t	Fresh weight 50t
P <sub>2</sub> O <sub>5</sub>	1.4	56	70
K <sub>2</sub> O	4.4	176	220
MgO	1.2	48	60

## Fertilizerplus product analysis

- Polysulphate (14% K<sub>2</sub>O, 6% MgO, 17% CaO, 48% SO<sub>3</sub>)
- Potashplus (37% K<sub>2</sub>O, 23% SO<sub>3</sub>, 2.8% MgO, 8% CaO)
- PKplus (various grades, tailor-made)

## Expected benefits of balanced crop nutrition with Fertilizerplus products

- Improved yields
- Increased dry matter
- Enhanced nitrogen use efficiency (NUE)

P

**Phosphate** - needed to stimulate root development and for improved flower formation, seed production and to build proteins and other compounds essential for plant structure, seed yield and genetic transfer.

K

**Potassium** - secures yield and quality, transport of sugars and stomatal control. It reduces susceptibility to diseases and impact of drought and is essential for good nitrogen use efficiency.

Mg

**Magnesium** - fundamental for photosynthesis as it is integral to chlorophyll. It is also important in development of a healthy root system.

S

**Sulphur** - an essential constituent of proteins and oil production also critical for building dry matter. Essential for nitrogen use efficiency.


Ca


**Calcium** - for strong and healthy crops. It is a major building block in cell walls and reduces susceptibility to diseases. Along with phosphate, calcium is very important in the development of the root system.

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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