

What is Polysulphate?

Polysulphate is a unique, multi-nutrient fertiliser containing sulphur (S), potassium (K), calcium (Ca) and magnesium (Mg) in water-soluble, plant available forms. Mined in the UK, Polysulphate can be applied as a straight or combined into multi-nutrient compounds.

Why use Polysulphate?

- ✓ Prolonged release rate of sulphate to match crop uptake and reduce the risk of leaching
- ✓ 2 – 4mm granular product with excellent blending and spreading characteristics
- ✓ Can be applied as a straight or in a compound for total flexibility
- ✓ Low chloride = ideal for chloride sensitive crops
- ✓ UK produced fertiliser with a low carbon footprint and fully approved for organic use

Origin Soil Nutrition Polysulphate range

Origin Soil Nutrition can supply Polysulphate either as a straight or formulated into a wide range of multi-nutrient NS, NPKS, or NKS compounds tailored to all soils and crops.

Grass:	Recommendations:
OEN 27-6-6 + 15 SO ₃ + 5.3 CaO + 1.9 MgO	Apply at 200 – 275kg/ha for each grazing cycle Also suitable for spring cereals or top-dressing winter cereals or OSR
OEN 28-0-14 + 10 SO ₃ 3.5 CaO + 1.2 MgO	Apply at 300 – 400kg/ha for grass silage for optimum forage quality
Sweet-Grass K+ 23-0-3.5 + 11.5 SO ₃ + 1.5 MgO + 5 Na ₂ O	Apply at 200 – 300kg/ha for each grazing cycle Contains sodium to improve palatability and maximise DM intake
Nitrogen / Sulphur grades:	Recommendations:
OEN 31-0-5 + 16 SO ₃ + 5.6 CaO + 2 MgO	Range of NS grades + S, Ca & Mg ideally suited for top-dressing winter cereals and oilseed rape.
OEN 23-0-7 + 24 SO ₃ + 8.5 CaO + 3 MgO	Can be applied either 'little and often' or to full-season S requirement in 1st dressing
20-0-6 + 20 SO ₃ + 7 CaO + 2.5 MgO	OEN and Polysulphate gives a unique combination of prolonged release N and S.
PK grades for cereals and legumes	Recommendations:
0-24-24 + 4 SO ₃ + Ca + Mg	Ideal for winter cereal establishment with the added benefit of providing S, Ca & Mg to boost early growth
0-20-30 + 4 SO ₃ + Ca + Mg	
0-13-20 + 16 SO ₃ + 5.7 CaO + 2 MgO	Specifically designed for legumes as a non-N source of essential S Increased CP in lucerne by 10% over zero-S in 2017 trial
Polysulphate as a straight	Recommendations:
0-0-14 + 48 SO ₃ + 17 CaO + 6 MgO	Apply as single, early season dressing to supply

Other analyses are available on request. OEN and Polysulphate provide a unique combination of prolonged release N and S to match crop uptake. Boron, Cobalt, Copper, Iron, Manganese, Selenium and Zinc can be added to the above grades on request.

The above recommendations are for guidelines only. Please consult your FACTS Qualified Advisor for a detailed recommendation based on your specific requirements and situation.

TRIAL DATA SHEET

POLYSULPHATE®

Objective: Comparing NPK+ammonium sulphate with NPK + Polysulphate

Crop: Grass

Location: National University of Ireland

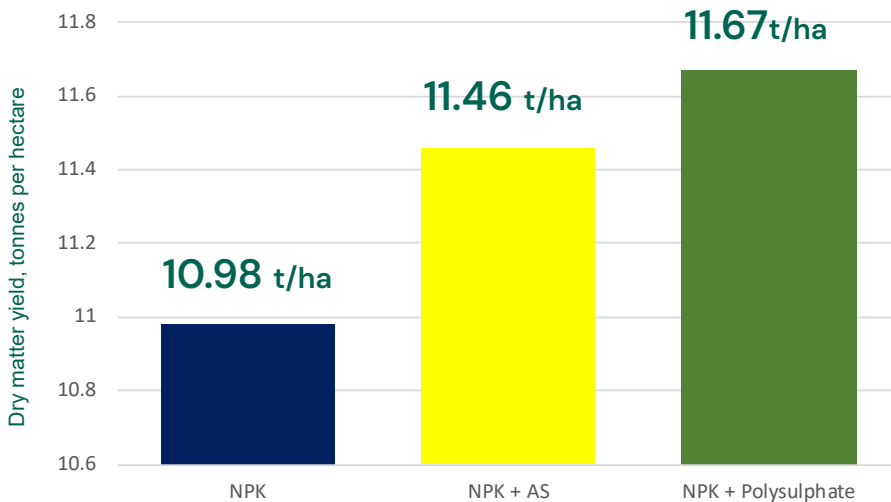
Date: 2016

Researcher: National University of Ireland

Trial code: NUI04/16



Results: Grass dry matter yield (t/ha) by harvest



Conclusions: Grass

- ✓ NPK + Polysulphate increased DM yield by 0.75 tonnes/ha
- ✓ DM value is £150/t therefore increasing yield by 0.75 tonnes/ha is worth £112.50/ha

Objective: Comparing placed DAP with and without Polysulphate as a 'maize starter' fertiliser

Crop: Maize

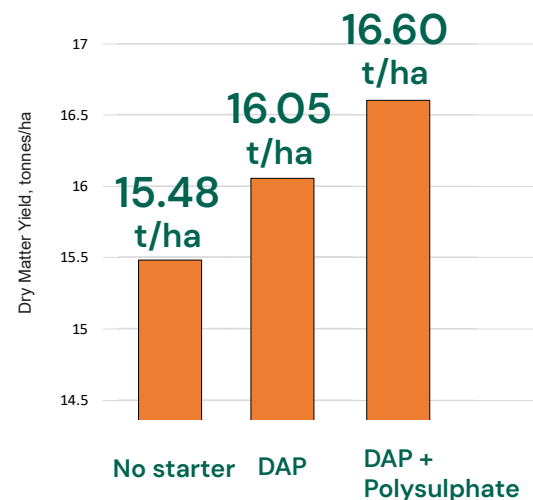
Location: Dorset

Date: 2017

Researcher: Independent replicated plot trial

Trial code: PS01/17

Results: Maize dry matter yield



Conclusions: Maize starter fertiliser trial

- ✓ Polysulphate increased DM yield by 0.55 t/ha
- ✓ DM value is £150/t therefore increasing yield by 0.55 t/ha is worth £82.50/ha
- ✓ The cost of the Polysulphate was circa £6.00/ha giving a ROI of 14:1