

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 Fertilisers Polysulphate range

Origin Fertilisers 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 |
| Maize: | Recommendations: |
| 14.5-37-3 + 14 SO ₃ + 5 CaO + 1.7 MgO + B, Mn & Zn | 9 nutrient starter fertiliser for optimum establishment Increased DM yield by 0.6t/ha over 'standard' DAP in 2017 independent UK trials which is worth £90/ha |
| 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.

TRIAL DATA SHEET

Polysulphate 

Objective: Comparing NPK+ammonium sulphate with NPK + Polysulphate

Crop: Grass

Location: National University of Ireland

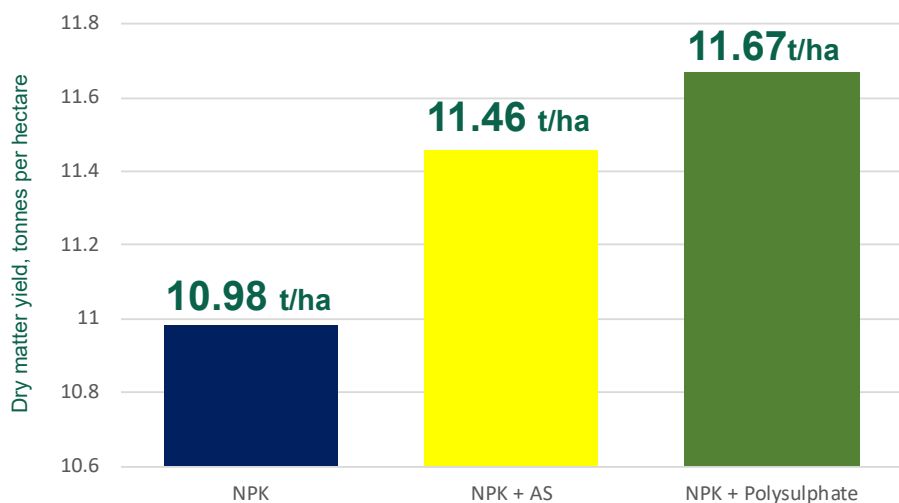
Date: 2016

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

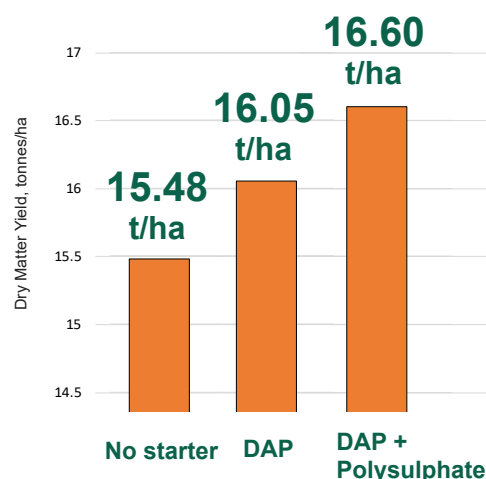
Location: Dorset

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

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t: 03333 239 230 e: productenquiry@originfertilisers.co.uk

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