

OMYA SULFOPRILL® PERFORMANCE IN OILSEED RAPE

EVALUATING THE BENEFITS OF SULFOPRILL FOR OILSEED RAPE YIELD AND QUALITY

TRIAL PROTOCOL

Three trials were conducted in Spain, Serbia and Germany to evaluate the benefits of Omya Sulfoprill as sulfur fertilizer compared with the commonly used ammonium sulfate. Both products were broadcast in the spring following winter planting of the oilseed rape crop, with each treatment containing comparable amounts of sulfur. At harvest, yield and oil content were measured.

Trial partner:	Sagea
Trial location:	Spain, Germany, Serbia
Trial season:	2022 - 2023
Soil type:	Sandy (ES, DE), silt loam (SR)
Trial design:	Randomized complete block (4 replicates)
Application Method:	Broadcast
Crop:	Oilseed rape

	Treatment description	Application rate (kg/ha)
1	Untreated control + NPK program	–
2	Ammonium sulfate + NPK program	200 kg/ha (48 kg sulfur)
3	Omya Sulfoprill + NPK program	240 kg/ha (41 kg sulfur)

Omya Sulfoprill – granulated product

Sulfur 17% (Sulfuric anhydride SO₃) 43%

Ammonium sulfate – granulated product

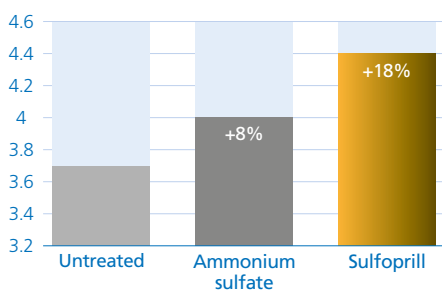
Sulfur 24%

RESULTS

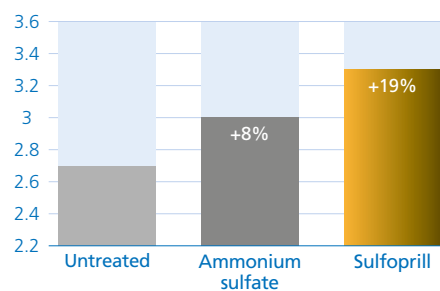
Yield t/ha

The importance of sulfur for oilseed rape productivity was demonstrated in all three trials. Both Omya Sulfoprill and the commonly used ammonium sulfate delivered a yield increase of between 6 – 19% compared with the untreated control which only received the NPK program. However, Omya Sulfoprill outperformed ammonium sulfate in the German and Spanish trials by an average of 10% higher yield. In the Serbian trial, the yield results were similar for both Omya Sulfoprill and ammonium sulfate.

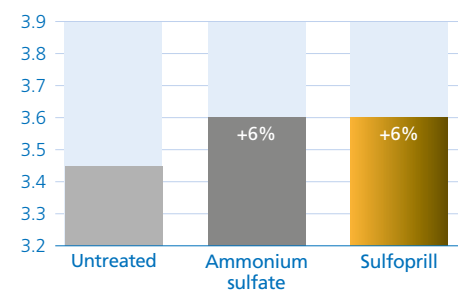
Spain



Germany



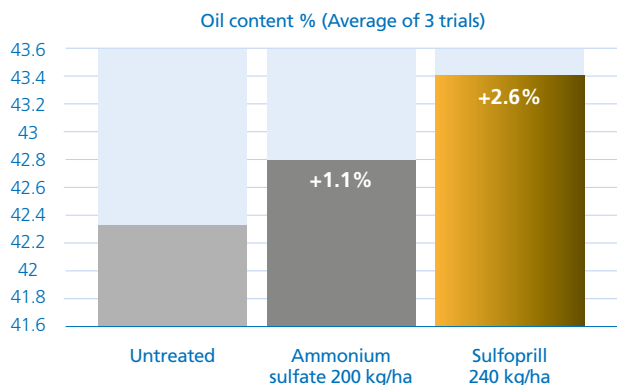
Serbia



* Moisture content ES & SR 10%, DE 6.5%

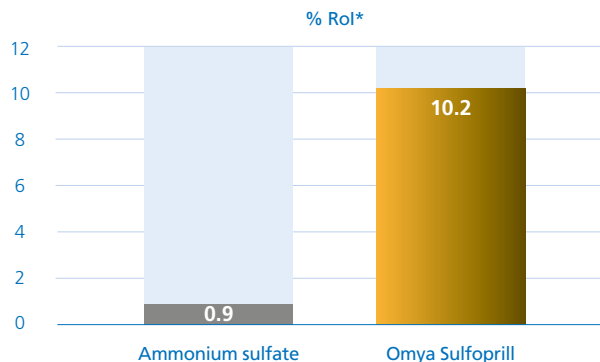
Oil Content

Sulfur is an essential component of amino acids and proteins, contributing to the quantity and quality of oil in oilseed rape production. In all three trials Omya Sulfoprill delivered an increase in oil content with an average of 2.6% more oil than the untreated and 1.5% more than ammonium sulfate.



Return on Investment

The yield results from all three trials show that the application of Omya Sulfoprill provided a clear economic benefit to the farmer compared with ammonium sulfate. The combination of a higher yield profit with an increase in oil content proves that Omya Sulfoprill delivers advantages for both farmer and oil processor further along the value chain.



* Based on fertilizer prices in Romania and OSR price in 2023

PROVEN SOLUTIONS FOR A MORE PRODUCTIVE WORLD

Omya Sulfoprill is a granulated product containing ultra-fine particles of natural calcium sulfate. It provides sulfur and calcium to the crop and improves the physical, chemical and biological properties of soil, leading to healthier soils and more productive crops.

This trial clearly shows the benefits of sulfur nutrition provided by Omya Sulfoprill, in terms of yield, oil content and return on investment.

Benefits of Omya Sulfoprill:

- Granules dissolve and disperse quickly in the soil
- Provides essential calcium and sulfur nutrition in a form suitable for plant uptake
- Promotes the production of proteins and chlorophyll
- Adds sulfur without causing acidification like ammonium sulfate
- Corrects sodic soils without a reduction in pH
- Maximizes uptake and utilization of nitrogen fertilizers
- Applied easily with standard fertilizer spreaders or by in-furrow precision application
- Suitable for organic use.

Ask your crop advisor for the correct application rates.

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Source: Omya International (2023/11)



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