



**PASSION
SULPHUR**



SULPHUR

FOR AGRICULTURE

passionag.com



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Passion Sulphur products play a pivotal role in enhancing global agricultural productivity and sustainability.

Sulphur (S) is an essential macronutrient for plant growth. By addressing sulphur deficiencies farmers can achieve better yields, improved crop quality, and long-term soil health.

Traditionally considered secondary to nutrients like nitrogen (N), phosphorus (P), and potassium (K), sulphur is gaining recognition for its significant impact on crop productivity and quality across the globe.

Incorporating sulphur into agricultural practices offers several environmental advantages that align with sustainability goals:

- **Improved Nutrient Efficiency:** Sulphur enhances the efficiency of nitrogen use in plants by facilitating protein synthesis, reducing nitrogen losses through leaching or volatilisation.
- **Reduced Emissions:** Balanced sulphur application can decrease greenhouse gas emissions by optimising fertiliser use and minimising over-application of other nutrients.
- **Enhanced Soil Quality:** Sulphur amendments, particularly in alkaline soils, improve soil structure through higher microbial activity, fostering a healthier ecosystem.
- **Integrated Nutrient Management:** Using sulphur as part of a broader nutrient management strategy reduces reliance on synthetic inputs and promotes more sustainable farming systems.

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ECONOMIC BENEFITS



Optimised Nutrient Efficiency



Higher Crop Yields



Better Crop Quality



Increased Farm Profitability

Studies consistently demonstrate the economic value of correcting sulphur deficiencies in crops. Crops with high sulphur demands, such as oilseeds and legumes, can deliver return on investment ratios up to 5:1.

This ROI is achieved not only through increased yields but also by improving the market quality of produce, such as higher protein content in grains or enhanced oil quality in oilseeds.

IMPORTANCE OF SULPHUR IN AGRICULTURE WORLDWIDE



■ **Europe:** In Europe, sulphur deficiencies have become more common due to reduced atmospheric deposition from industrial emissions. Crops like rapeseed (canola) and cereals (wheat, barley) show a significant yield and quality response to sulphur fertilisation.

■ **Asia:** Many Asian countries face sulphur-deficient soils, making supplementation essential for sustainable and profitable agriculture. Sulphur enhances crop yields, soil health, and the production of staple crops like rice, oilseeds, and fruits.

■ **North America:** In the United States and Canada, sulphur application benefits crops like corn, soybeans, and alfalfa. Modern precision agriculture techniques are being employed to monitor and manage sulphur levels effectively.

■ **Africa:** Sulphur deficiencies are prevalent in African soils, especially in regions practicing intensive agriculture without adequate fertilisation. Crops like groundnuts, cassava, and maize greatly benefit from sulphur supplementation.

■ **South America:** Brazil, known for its vast soybean and sugarcane production, extensively uses sulphur to maintain crop quality and yield.

■ **Oceania:** In Australia and New Zealand, sulphur is critical for pastures and crops like wheat and canola. The use of elemental sulphur helps address deficiencies in soils with low organic matter and provides long term sustainability of supply in the soil.

BRIMSTONE 90™

THE ADVANCED SULPHUR FERTILISER



Brimstone 90™ is a state-of-the-art sulphur fertiliser designed to address the critical need for balanced crop nutrition in today's farming.

A high analysis (90% elemental S) product, it provides a cost-effective and efficient solution for sulphur deficiency, which improves nitrogen uptake, enhancing yield and quality, and overall crop performance.

As sulphur deficiencies become more widespread due to reduced atmospheric deposition, Brimstone 90 offers a reliable, science-backed solution to boost your crop's potential. Partner with us to secure higher yields, better quality, and sustainable farming practices.

Key Benefits of Brimstone 90:

Season-Long Sulphur Supply: Thanks to its innovative formulation, Brimstone 90 releases sulphur steadily throughout the growing season. Soil bacteria convert its fine particles into plant-available sulphate, ensuring consistent nutrient availability for optimal crop growth.

Enhanced Yield and Quality: Trials have demonstrated significant improvements in yields and quality for crops like oilseed rape, wheat, and barley. For example, independent trials at Harper Adams University, UK (2009/2010) reported an 11.5% yield increase in oilseed rape and a strong return on investment.

Minimal Leaching: Unlike ammonium sulphate and other sulphate-based fertilisers, including polysulphate, Brimstone 90 Sulphur offers a significantly lower risk of leaching through the soil profile. This makes it a more environmentally friendly, reliable, and cost-effective choice.

Superior Application Flexibility: The uniform pastille form ensures dust-free handling and even spreading over distances up to 36 meters. Brimstone 90 can be applied in autumn or early spring, offering unmatched flexibility for busy farming schedules.

Why Choose Brimstone 90?

Optimal Particle Size Range: Its blend of particle sizes supports early and late-season nutrient availability, catering to the crop's varying needs over time.

Blending Compatibility: Brimstone 90 integrates seamlessly with other fertilisers, streamlining application processes for farmers.

Sustainability and Soil Health: The gradual release of sulphate supports sustainable agriculture by improving nutrient efficiency and reducing environmental impact.

Applications:

Brimstone 90 is particularly beneficial for sulphur-hungry crops such as:

- **Oilseed Rape:** Enhances chlorophyll content and improves seed quality.
- **Cereals (Wheat and Barley):** Addresses sulphur deficiencies that impact bread-making quality and malting characteristics.
- **Specialty Crops:** From fruits to sugar cane, Brimstone 90 supports better nutrient balance and resilience.
- **Grassland:** Improves grass yield and silage quality and digestibility for livestock nutrition.



Brimstone 90 is available as consistently sized 4mm × 2mm half bun shaped pastilles (above left), and smaller 2mm × 2mm Brimstone Minis (above right).



COMPREHENSIVE PRODUCT RANGE

Brimstone 90 offers a versatile range of sulphur fertilisers designed to cater to the specific needs of diverse crops and farming systems. Each product is engineered with innovative technology to ensure sustained sulphur availability, enabling enhanced nutrient efficiency and optimal crop performance.

BRIMSTONE 90 PASTILLES

Brimstone 90 Pastilles contain 90% elemental sulphur blended with a carefully selected bentonite clay formulation to promote steady conversion to plant-available sulphate. These uniform pastilles are dust-free, easy to handle, and ensure even spreading.

Key Benefits:

Sustained Sulphur Release: Provides a continuous supply of sulphur throughout the growing season.

Eco-Friendly: Minimal risk of leaching compared to sulphate based fertilisers.

Optimal Spreading: Spreads up to 36 meters, compatible with common applicators.

Blending Flexibility: Mixes well in dry blends with other fertilisers for efficient application.

BRIMSTONE MINIS™

Brimstone Minis™ is a specialised 2mm mini pastille size, designed for precision application in crops with specific sulphur requirements such as in potatoes for the reduction of common scab and enhanced yield quality by lowering pH around the tubers, and in vegetables for healthy growth and vitamin synthesis.

Key Benefits:

Targeted Delivery: Ideal for applying along planting ridges to reduce scab in potatoes by lowering the pH close to the planted seed tubers.

Customised Application: Compatible with applicators like StocksAG to deliver precision results.

Efficient Usage: High concentration ensures lower application rates of 25 – 50kg/ha. Targeting a high concentration of elemental sulphur specifically around the tuber to lower the pH, ensures a cost effective solution to reducing the incidence of common scab in potatoes.

BRIMSTONE 90 BLENDS – INFUSED WITH MICRONUTRIENTS

Customised blends of **Brimstone 90**, infused with a range of micronutrients, allow farmers to tailor nutrient supply to meet crop-specific requirements and benefit from enhanced spatial distribution of the micronutrients in the soil.

Key Benefits:

Customised Nutrition: A range of blends with micronutrients, are available to create balanced fertiliser solutions.

Application Efficiency: Simplifies spreading while meeting multiple nutrient needs.

CONTACT US for more information on available blends and minimum order quantities.



BRIMSTONE 90 WDG

Brimstone 90 WDG (Wettable Dispersible Granule) is an advanced formulation designed for precision application. It suspends easily in water, making it ideal for spraying or fertigation systems to deliver elemental sulphur directly to crops.

Key Benefits:

Precision Application: Ensures even distribution of sulphur through irrigation systems, particularly useful to support nutrient requirements during critical growth stages and for high value crops requiring targeted nutrient management.

Quick Conversion: Fine particles facilitate fast microbial conversion to plant-available sulphate, supporting immediate and sustained nutrient availability.

Ease of Use: Disperses completely, minimising clumping and ensuring smooth application.

IMPORTANT NOTICE: The use of sulphur as a fungicide may require official registration and compliance with local regulations. Passion Ag does not hold such registrations and supplies raw sulphur as a bulk material only.

Wholesalers and retailers are responsible for obtaining approvals and ensuring legal compliance. Passion Ag accepts no liability for misuse.

DUSTING SULPHUR

Dusting Sulphur is a fine, ready-to-use formulation ideal for controlling fungal diseases in crops and addressing sulphur deficiencies. Designed for agricultural use, it ensures effective coverage and reliable performance in protecting crops from common fungal diseases.

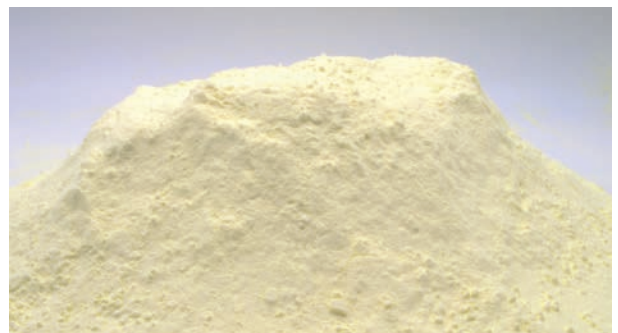
Key Benefits:

Fungal Protection: Suppresses fungal diseases such as powdery mildew, ensuring healthier crops.

Enhanced Crop Quality: Improves the vitality and resilience of sulphur-deficient plants.

Versatile Application: Suitable for dusting high-value crops and field applications.

Ease of Use: Fine formulation ensures uniform distribution and reliable efficacy.



Dusting sulphur is a high-quality fine powder of 120 mesh size, suitable for a variety of agricultural inputs.

SULPHAFEED™

THE ESSENTIAL SULPHUR SUPPLEMENT FOR ANIMAL HEALTH

Sulphur is an essential nutrient in animal nutrition, playing a key role in balanced feed formulations for cattle, sheep, goats, poultry, and pigs. By supporting key physiological processes, SulphaFeed™ promotes optimal well-being and performance in livestock, playing a vital role in supporting growth, digestion, resilience, and overall health.

Protein Synthesis: Facilitates the formation of essential amino acids like methionine and cysteine, crucial for growth, repair, and overall health.

Wool and Hoof Development: Supports keratin production, promoting healthy wool, hooves, and feathers.

Improved Digestion: Enhances rumen function and microbial activity in ruminants, improving nutrient absorption.

Detoxification: Aids in metabolising harmful substances for better overall health.

SULPHAFEED POWDER – 200 AND 300 MESH SIZE.

Characteristics:

Fine particle size with a large surface area.
Quick release and absorption into animal systems.
Ideal for fine-textured feed mixes.

Applications:

Targeted Supplementation: Ideal for animals requiring immediate sulphur intake for specific health benefits.

Custom Feed Blends: Blends well into premixes and finely balanced feed formulations.

Ruminants: Especially effective for cattle, sheep, and goats to optimise microbial protein synthesis in the rumen.

Key Benefits:

Rapid Bioavailability: Ensures quick dissolution and absorption to address immediate sulphur deficiencies.

Cost-Effective: Allows precise dosing, minimising waste.

Ease of Mixing: Integrates evenly with other feed ingredients for uniform distribution.

SULPHAFEED GRANULES

Characteristics:

Coarser particles with slower dissolution compared to powder.
Gradual release of sulphur content over time.
Reduces dust and handling issues.

Applications:

Long-Term Supplementation: Provides a sustained release of sulphur, ensuring prolonged benefits.

Pelleted Feeds: Perfect for processed feeds used in poultry and pigs.

Environmental Benefits: Improves feed efficiency and reduces nutrient losses in manure.

Key Benefits:

Sustained Nutrient Availability: Supplies sulphur steadily to support ongoing health and performance.

Reduced Dust: Safer and easier to handle during large-scale feed production.

Safety: Non-hazardous for storage and transportation.

Choosing the right SulphaFeed for your needs

Ensure your livestock receives the essential sulphur nutrition they need with SulphaFeed Powder and SulphaFeed Granules. Choose the tailored solution that best fits your operation to maximise animal health and productivity.

	SULPHAFEED POWDER	SULPHAFEED GRANULES
Release Rate	Fast and immediate	Slow and sustained
Suitability for Mixing	Ideal for premixed feed and TMR	Best for pelleted or processed feeds
Target Animals	Ruminants – cattle, sheep, goats	Livestock requiring extended release – pigs, poultry
Application Scale	Small-scale, precise rations	Large-scale feed production



**PASSION
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With over 30 years of expertise and a commitment to exceptional customer service, Passion Sulphur is your trusted partner in the supply chain of this indispensable agricultural resource.

HIGH PURITY AND CONSISTENCY

All Passion Sulphur products are manufactured to ensure exceptional purity and uniformity, supporting reliable performance in agricultural applications. Our rigorous quality control standards provide peace of mind for farmers and agribusinesses striving to meet the demands of today's agricultural landscape.

DEDICATED TO ADVANCING SUSTAINABLE AGRICULTURE

Passion Sulphur is committed to supporting sustainable farming practices. Our products are designed to enhance productivity while minimising environmental impact, helping farmers achieve long-term success and resilience.

INDUSTRY EXPERTISE YOU CAN TRUST

With decades of experience in supplying high-quality sulphur for agricultural and industrial use, Passion Sulphur has built a reputation for reliability, innovation, and excellence. We understand the unique challenges faced by the agricultural sector and are here to provide the solutions you need to thrive.

FLEXIBLE SOLUTIONS FOR YOUR NEEDS

We offer customisable pack sizes to suit your requirements and flexible delivery options to align with your schedule, backed up with expert technical support to optimise your sulphur applications.

When you choose Passion Sulphur, you gain more than a supplier – you gain a partner committed to your business. Our strong relationships with suppliers and loyal customers are a testament to the trust and quality that define our business. Join the countless farmers and agribusinesses worldwide who rely on Passion Sulphur for their agricultural needs.

CONTACT US

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