

# Heartland<sup>®</sup> Sulphur

## 24-8-8 (8SO<sub>3</sub>)

Heartland Sulphur is a True Granular Compound offering flexible NPKS applications for cereals, oilseed rape and grass silage which requires P, K and S.



### Applications

**Arable** – Apply to the Nitrogen levels and number of applications required in cereals and oilseed rape. Ensures adequate levels of Phosphate and Potash are applied to replace crop offtakes at soil P and K indexes of 2, with the nutrients applied in the spring when crops need them. In-season application of P and K reduces the pressures of the autumn workload.

**Grassland** – For spring application on first cut silage apply 300–500kg/ha, splitting the dressing evenly with four weeks between applications. In conjunction with slurry, Heartland Sulphur is particularly useful for high input, high output silage systems that remove a lot of P and K in the crop. Sulphur increases in DM yield of 25% can be achieved on light and medium soils, alongside increases of 4% in protein and 5% in sugar contents to improve grass quality and palatability.

### Product description

**Ammonium Nitrate** is the most efficient and predictable form of Nitrogen for UK growers.

**Ammonium Sulphate** offers a readily available source of Sulphur to the growing crop.

**Water soluble Phosphate** provides rapid uptake to support root development and plant growth.

**A True Granular Compound** ensures even and accurate spread of all nutrients across the crop.

**Bulk density** typical range 900-1000 kg/m<sup>3</sup>, average 960 kg/m<sup>3</sup>.

The **Carbon Footprint** for Heartland Sulphur is 4.5kg CO<sub>2</sub>e per kg Nitrogen.



Feature	Benefit
Phosphate and Potash applied during the growing season	Reduces autumn workload and potentially fertiliser application costs. Nutrients are provided in-season when the crop uses them most efficiently giving better yields and crop quality.
One product solution for soils at target P and K index 2	One product applied throughout the season simplifies arable operations and decreases workload at peak times.
High nutrient concentration	Less product is needed, potentially reducing application costs.
Contains Ammonium Sulphate	A readily available form of Sulphur for rapid uptake – elemental Sulphur cannot be taken up directly by crops because plants only take up Sulphur in the Sulphate form.
Contains Ammonium Nitrate	AN is the most efficient Nitrogen source and the 'Best Option for the Environment and Farming' according to Government research.
Contains water soluble Phosphate	Crop roots will only take up Phosphorus from soil solution so providing Phosphate in a form that is over 96% water soluble ensures rapid and efficient uptake, supporting root development and plant growth.
A True Granular Compound	Even application of all nutrients across the whole spreader bout width, which optimises nutrient use efficiency and crop response.
Manufactured at sites which are accredited to ISO 9001	Reliable product with consistent high quality, year-in, year-out.

## Sulphur Facts

- Sulphur is very mobile in the soil and can leach through the soil profile. Where large amounts are required it is advisable to split the recommended requirement in two applications.
- Foliar applied Sulphur is a less efficient approach to correcting Sulphur deficiency. This is because only 2% of the Sulphur is being intercepted and absorbed through the leaf and often these products don't contain enough Sulphur.
- The average UK deposition of Sulphur is now negligible compared with the 25kg SO<sub>3</sub>/ha/year of 20 years ago. In fact Sulphur deposition is no longer measured, due to such low levels occurring.
- Organic manures contain Sulphur, but in variable quantity and availability. Like elemental Sulphur, most of the Sulphur in organic manures cannot directly be taken up by crops for growth.

## Ready reckoner for application rates

Product application rate kg/ha	Nutrient application rate			
	N kg/ha	P <sub>2</sub> O <sub>5</sub> kg/ha	K <sub>2</sub> O kg/ha	SO <sub>3</sub> kg/ha
210	50	17	17	17
315	76	25	25	25
420	101	34	34	34
625	150	50	50	50
840	202	67	67	67

## Notes

- For cereals, the optimum Sulphur application rate is 50kg SO<sub>3</sub>/ha.
- For Oilseed Rape, the optimum Sulphur rate is 60-80kg SO<sub>3</sub>/ha or for very deficient sites 112kg/SO<sub>3</sub>/ha. If using CropMaster Sulphur then an early application of DoubleTop® can be used to supply more Sulphur.
- To convert from kg product/ha to bags/acre, multiply by 0.4, then divide by 50 (e.g. 250kg product/ha x 0.4 = 100/50 = 2 bags/acre).
- To convert from kg nutrient/ha to units/acre, multiply by 0.8 (e.g. 200kg N/ha x 0.8 = 160 units N/acre).

## Calibrate before you spread for application rate and spread pattern

CF Fertilisers products spread to 32m bout widths. Widths of 36m are achievable with certain spreaders and products in suitable conditions, however, please seek advice. It is important to maintain fertiliser spreaders, whatever bout width you work at.

For optimum results, CF Fertilisers recommends that you follow the industry standard and set up your spreader for both application rate and spread pattern for each different fertiliser that you use. For Product Safety Data Sheets, please go to the website: [www.cffertilisers.co.uk/safety-datasheets](http://www.cffertilisers.co.uk/safety-datasheets)

## Blue bags grow better crops

### Quality Blue Bags – made in Britain for British farmers and British conditions

- Every ingredient is fully traceable
- Blue Bag fertilisers work faster and are more reliable and effective
- Consistent product quality ensures consistent spread
- Every product we make is certified by the Carbon Trust
- We use the best possible packaging
- All CF Fertiliser products are manufactured in the UK to ISO 9001 standards



Heartland Sulphur is available in a 600kg bag size.



## What goes into every bag...



## What comes out of every bag...



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