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# **BRIMSTONE**

Sulphur provider company

**BRIMSTONE TURKEY**

SULPHUR BENTONITE

## The sulphur problem

According to the HGCA, sulphur deficiency continues to become more widespread due to the rapid fall in atmospheric sulphur emissions. They are now one seventh of 1992 levels.

## Fertiliser requirements:

Crop	kg SO <sub>2</sub> /ha
Barley	25-50
Wheat	50
Oilseed rape	50-75

HGCA Recommendations, Information sheet 28, 2014

## Sulphur deficiency means:



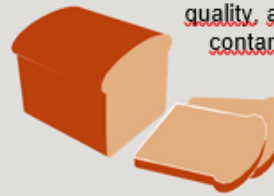
Poorer usage of nitrogen,  
so poorer yields

Barley: Poorer  
malting quality  
and beer flavour



OSR: Residue  
chlorophyll in  
harvested seed

Lower bread making  
quality, acrylamide  
contamination



Plants need the  
same amount of



Sulphur

as of

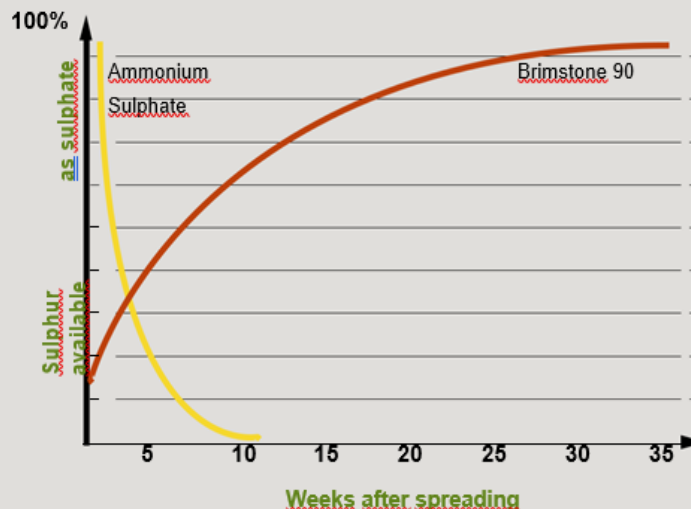


Phosphorus

(Defra RB209, 2010)

# SULPHUR IS IMPORTANT AND ESSENTIAL FOR SOIL AND CROPS

## Season Long Sulphur



Brimstone90 is the state-of-the-art in sulphur fertilisers. Not only does it provide sulphur to the crop soon after spreading, but it continues to feed the crop through the growing season.

This makes it the ideal cost-effective solution to the growing problem of sulphur deficiency, which limits nitrogen uptake, impacts grain and oilseed quality and damages yields.

Being 90% elemental sulphur, Brimstone90 quickly breaks up in contact with soil moisture into fine particles, which then convert steadily in the soil to the sulphate form to be taken up by the plant. Unlike Ammonium Sulphate, this process results in little risk of leaching.

**11.5%** higher yield  
in OSR

(Harper Adams trials, 2009/2010)

**5:1** return  
on investment

## Optimum particle availability

Brimstone90 has the optimum range of Sulphur particle sizes providing a continual supply of sulphate through the season.



Provides a continual supply of substrate for conversion to SO<sub>4</sub>



<150 microns  
150-1700 microns

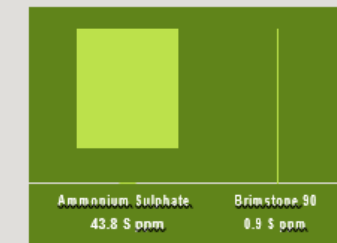
## Ultimate spreading flexibility

Brimstone90 can be spread at any convenient time in the autumn or early spring – there is no need to wait for a convenient weather window.

Formed in uniform pastilles, dust-free and easy to handle, Brimstone90 spreads well out to 36 metres. It has been fully tested by SCS, and calibration settings are available for all popular spreaders. Brimstone90 blends easily with other fertilisers.



## Minimal leaching



0.25g S/ pot applied. Leachate S (ppm) above Control (no S applied). (Levington Agriculture Independent Trial 1998)

**BRIMSTONE**

# SULPHUR BENTONITE ADVANTAGES FOR SOIL



Sulphur is one of the 4 major essential plant nutrients together with N,P,K, and it contributes to increase crop yields and fertilizer efficiency in different ways- It provides a direct nutritive value.



- It provides indirect nutritive value as soil amendment, especially for neutralizing soils.



- It improves the efficiency of other essential plant nutrients, particularly N and P, through fertilizer reaction and interaction.



- Physical and chemical properties of elemental S and its oxidative compounds in soils could slow and control fertilizer nutrients release for plant uptake during the growing season as well as reduce nutrient losses without environmental risk.

## WHY FARMERS SHOULD USE SULPHUR BENTONITE?



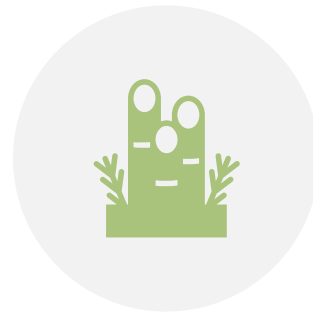
- It could be good for corns, soybeans, rices, apples, teas, oranges, tobaccos, coffee, potatoes, etc.



- Sulphur Bentonite is a highly concentrated fertilizer that reduces the amount of fertilizer



- No toxic



- Sulphur Bentonite granules are designed and sized to blend well with other

# SULPHUR AND SULPHATE FORM





- INCREASES SOIL ACIDITY  
AND LOWERS SOIL PH



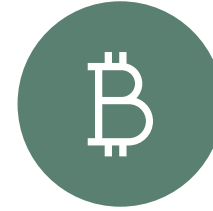
- IMPROVES THE  
EFFICIENCY OF OTHER  
FERTILIZERS WHEN  
BLENDED AND USED  
TOGETHER.



- INCREASES CROP  
YIELDS, QUALITY AND  
HEALTH. IT IS GOOD FOR  
CORN, BEANS, RICES,  
APPLES, TEAS, ORANGES,  
TOBACCOS, COFFEES,  
POTATOES AND TURFS



- SUPPLIES SULPHUR TO  
THE SOIL FOR THE CROP  
CONTINUOUSLY.



- PROVIDES ALL BENEFITS  
OF SULPHUR AS WELL AS  
AN EFFICIENT DELIVERY  
SYSTEM FOR  
MICRONUTRIENTS.

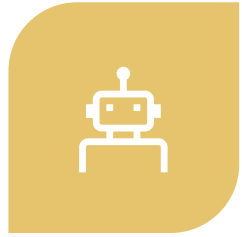


- REDUCES COST AND  
INCREASES ECONOMIC  
RETURNS.

## WHY ? BRIMSTONE SULPHUR BENTONITE

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## ECOFRIENDLY AND ORGANIC



- HIGH UNIFORMITY AND  
EFFICIENCY.



- HIGHER SULPHUR  
CONTENTS.



- LOW TRANSPORTATION  
AND HANDLING  
CHARGES



- EASY AND QUICK  
ACCESS TO SOIL AND  
PLANT WITH SEASON  
LONG EFFECT



- ECO FRIENDLY



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# GENERAL SPECS OF THE PRODUCT

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- **Color**
  - Dark brown ( color may vary depending on the material source)
  - **Shape**
  - Split pea shaped pastilles
  - **Sulphur**
  - 90%  $\pm 1$
  - **Bentonite**
  - 10%  $\pm 1$
  - **Size**
  - Diameter 2.5~5mm / Height 1.4~1.8mm
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# BRIMSTONE SULPHUR BENTONITE KEY FEATURES



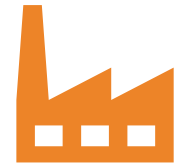
Guaranteed analysis of  
90%



Increased nitrogen  
utilization, phosphate and  
micronutrient uptake



Resists leaching until  
converted to sulphate  
form



Industry leading quality  
and product uniformity



# **BRIMSTONE**

Sulphur provider company

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IZMIR / TURKEY