

PRODUCT INFO
& DATASHEET

SICOSTAR® SULPHUR 90

*Sulphur formulation containing 90% sulphur (225% SO₃)
+ 10% Bentonite (in pastille shaped form)*

- Made in Oman -

12/2019

PRODUCT DESCRIPTION

SICOSTAR® SULPHUR 90 is a degradable sulphur product in a pastille-shaped form that can be used both as a source of plant nutrient sulfur and/or as a soil amendment for correction of problem alkali soils. Yearly applications of SICOSTAR® SULPHUR 90 will improve soil sulphur levels as well as replenish sulphur loss associated with soluble plant nutrients. SICOSTAR® SULPHUR 90 is recommended for all crops, as sulphur is required by plants to build proteins, enzymes, vitamins, and is essential in metabolic reactions.

SULPHUR IN AGRICULTURE (4TH Macronutrient)

The value of Sulphur farming, then has reached such an enormous degree that 'S' has stood in the fourth place after the nutrients N,P,K

- * Important to crop yield and quality
- * Improves soil conditions
- * Promotes efficient absorption and metabolism of NPK
- * Essential to synthetic and catalytic plant reactions

SPECIFICATIONS

* CHEMICAL COMPOSITION:

Sulphur	: 90 % min.
Bentonite	: 10% max.
Moisture	: 0.5% max.

* PHYSICAL PROPERTIES:

Color	: golden brown
Shape	: pastille
Size	: 2.0-4.0 mm dia and 2.0-2.5 mm ht
Bulk density	: 1.10-1.20



THE ADVANTAGES OF SICOSTAR® SULPHUR 90

- * Improves soil conditions as soil amendment
- * Improves other fertilisers' efficiency
- * Improves plant health
- * Decreases soil alkalinity
- * Increases crop yield
- * Increases crop quality
- * Increases economic returns

WHY CHOOSE SICOSTAR® SULPHUR 90?

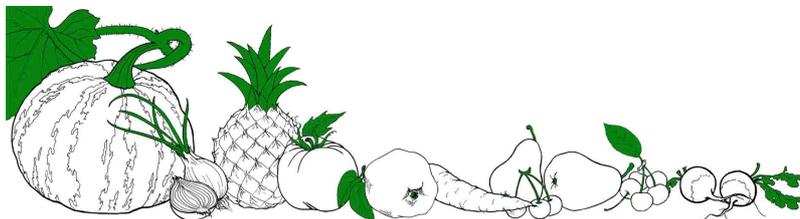
The sulphur in Ammonium Sulfate fertilisers (21-0-0-24) are in a water soluble form and significant rainfall events or irrigation can quickly move the sulfate sulphur below the root zone leaving the crop without adequate sulphur fertility. Mobile sulphate can end up in groundwater and impact both water quality and environment.

Early season degradation of SICOSTAR® SULPHUR 90 nurtures crops as they germinate, emerge, and grow through seed set. This season-long process continues to feed the crop throughout the year and provides sulphur nutrition at every critical growth stage including seed set and filling stages.

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

SAP INTERNATIONAL CORPORATION bvba Krekelenberg 69, B-2980 Zoersel, Belgium
Tel. +32-3-309.06.51 Fax. +32-3-309.19.31 Email : info@sico.be Website : www.sico.be

SICO FERTILISERS
EVERY TIME THE RIGHT SOLUTION



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GENERAL APPLICATION AND USE RECOMMENDATIONS

SICOSTAR® SULPHUR 90 provides agronomic and economic benefits in an easy to use pastille form.

It can be blended with other granular or prilled fertilisers or applied alone. Proper timing, rate, and placement is important for desired results and highly dependent on stage of crop growth, soil fertility levels, and environmental conditions. If SICOSTAR® SULPHUR 90 is not applied on a regular basis, or if soil sulphur levels are reported as deficient, then a soluble source of sulphur should be applied in conjunction with this product. (see SICO Sulphur Formulations) Application rates vary from 5 to 50 lbs/acre as determined by crop and soil test levels.

RECOMMENDATIONS FOR USE

SICOSTAR SULPHUR 90 is intended for fertilisation of soils with sulphur deficiency, also for adjustment of soil acidity and fertilisation of sulphophilic plants such as: oilseed rape, pea, papilionaceous plants, cabbage vegetables, sugar and red beet and onion vegetables, radish, tomatoes, wheat, barley and corn.

The fertiliser may be applied separately or as a constituent of a mixture with other granular fertilisers.

Peas:	25 - 50 kg per hectare	Potatoes:	25 - 100 kg per hectare
Oilseed rape:	25 - 100 kg per hectare	Cereals:	15 - 40 kg per hectare
Grassland:	15 - 55 kg per hectare	Maize:	15 - 25 kg per hectare

Use the higher rate for soils of lower sulphur status or greater sensitivity. Time of full dispersion is about 3 months.

PRESENTATION

25 kg bags or 1250 kg big bags (loose) with top and bottom spouts (25 MT/20' fcl)

FURTHER BENEFITS

1. Soil conditioner as pH correction: Many agricultural lands in the world are in alkaline nature, i.e. the pH is more than 7. These alkaline soils resist the penetration of primary nutrients Nitrogen, Phosphorus and Potash. By adding Sulphur bentonite to the soil, it reduces the pH to 6.5 – 7.0 and allows primary nutrients to pass through the soil. Thus, primary nutrients are available to the plants.
2. It releases sulphur slowly and hence the sulphur is available to the plants for the entire crop period.
3. It gives strength to the plants and thickens the branches.
4. It gives strength to the flowers and boll; hence premature falling is avoided.
5. It enhances the photo synthesis of chlorophyll and hence the leaves are very greenish.

SOME APPLICATIONS & ADVANTAGES OF SULPHUR

1. Applied widely to grass and lawns for improving chlorophyll.
2. Used for oilseed Plants like, ground nut, coconut, sun flower, palm oil and olive trees for 30-35% increase in yield has been noticed.
3. Applied for all kinds of cereals, where it improves sizes.
4. Applied for all kinds of fruits, where it improves taste, odor and pulp thickness.
5. Applied for paddy and wheat crops, where it improves yields by 15-20%.

— Soil Application only —

SULPHUR 90% + BENTONITE 10%

The solution to disadvantages described was found in combining Sulphur with Bentonite. Such a combination is a unique type of elemental sulphur fertilisers whose degradability makes the needed sulphur quickly accessible for both soil and plant with a long lasting effect.

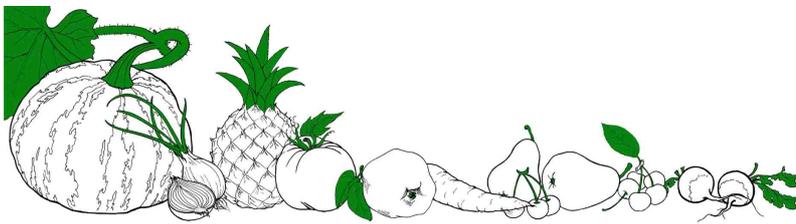
Thus, compared to other available fertilisers, a substantially greater efficiency is achieved. Moreover, the granular shape and the high percentage of S existing in this product have made its transportation application in farms greatly easier than other similar fertilisers.

Since the need of sulphur as the fourth element in agriculture is significantly rising, SICOSTAR® SULPHUR 90% is able to satisfy a great deal of Sulphur deficiency in soil and plants.

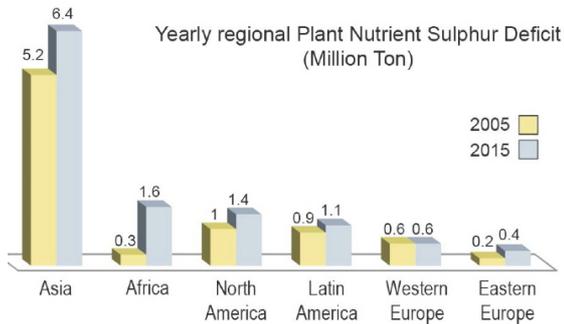
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ROLE OF 'S' IN PLANT GROWTH

Sulphur is essential for the growth and development of all crops, without exception. 'S' deficiencies can only be corrected by the application of 'S' fertiliser.

SULPHUR IN AGRICULTURE (4TH ESSENTIAL NUTRIENT)

Sulphur (S) is vital for life, and essential for plant growth like nitrogen (N) phosphorus (P) and potassium (K), S is one of the nutrients essential to plant life. It contributes to higher crop yields and quality in different ways;

- Provides a direct nutritional value
- Improves the efficiency of other essential nutrients to plants, particularly N,P and some micronutrients as Zn, Fe, Cu, Mn and B
- Improves crop production quality by increasing the percentage of protein and oil in seeds, cereal quality for milling and baking, nutritional value and marketability of vegetables and fruits, quality of tobacco, nutritive value of forages, etc.

Oil crops, legumes, forages and some vegetables require more S than P for optimal yield and quality.