



# Dynamon

Choose SyNergy  
for optimal  
efficiency

**CCI**

# Sulphur and nitrogen: a valuable SyNergy

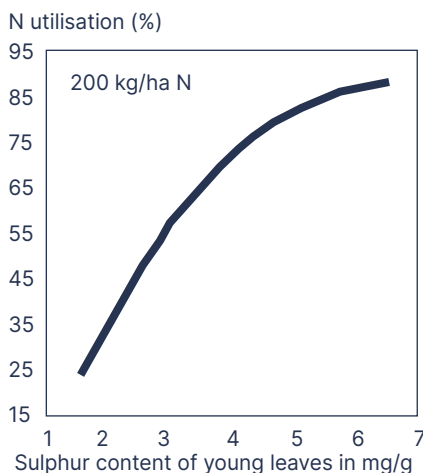
Dynamon is the new **nitrogen-sulphur fertiliser** by OCI, recognisable by its yellow granules. With 24% N and 7% S, Dynamon has an ideal N/S ratio.

Even more important is the **synergy between nitrogen and sulphur**. The utilisation of nitrogen fertilisers depends on the sulphur supply. In case of a sulphur deficiency, a part of the nitrogen remains unused, reducing the **Nutrient Use Efficiency** of the fertiliser.

Besides that, sulphur, like nitrogen, plays an **important role in the formation of proteins**.

The sufficient availability of sulphur results in a higher Nitrogen Use Efficiency and a robust crop with high and qualitative yields.

## Relationship between S supply and N utilisation in rapeseed



Source: E. Schnug, 1990

*'A nitrogen application is only truly effective when a sufficient amount of the secondary nutrient sulphur is available'*

Thomas Mannheim - Global Head of Agronomy - OCI

# Why bring more and more **sulphur to the crops?**

Due to emission controls in the last thirty years, sulphur deposition in West Europe has dropped. The supply of atmospheric sulphur has **dropped tenfold over the past 30 years**. On average, only 6 kg S/ha comes out of the air.

Today's need for sulphur for important agricultural crops far exceeds the atmospheric sulphur and the provision from soil and organic manure. That is why **applying sulphur** to the crops through fertilisers **is necessary**.



## Optimal N/S ratio

Increased nitrogen uptake and utilisation by the crop

## 7% sulphur (S)

Reliable high-quality crop yields



## Even distribution of N and S in the granule

Homogeneous spreading of nutrients

## Recognisable

Yellow granules that represent the consistent quality

## Hard, homogeneous, dust-free granules

Spreading over large widths (>50 meters)

Dynamon, recognisable by the **yellow granules**

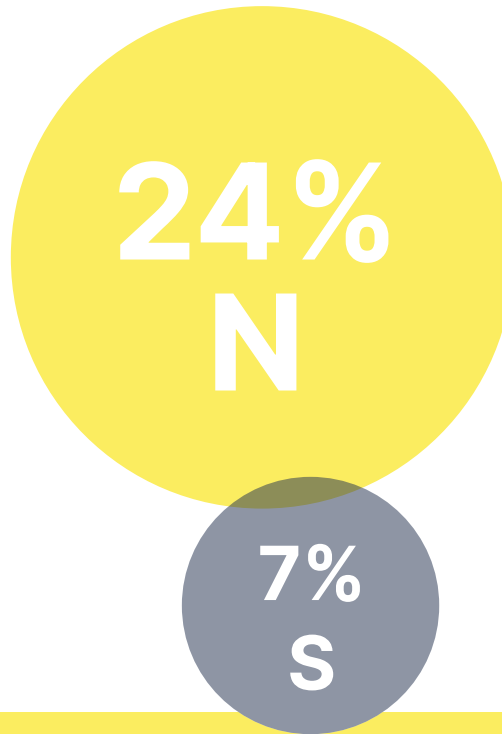
# Composition of Dynamon

Dynamon contains 24% nitrogen and 7% sulphur. This **optimal nitrogen-sulphur ratio** combines the sulphur with a balanced ratio of 50% ammonium and 50% nitrate as a nitrogen source.

The combination of the right forms of nitrogen and sulphur ensures that both nutrients are **available for the crop**.

Adding sulphur to Dynamon's composition ensures that the crop has **sufficient sulphur until harvest**, leading to improved nitrogen uptake by the crops and helping to **minimise nitrogen losses**.

## Composition of Dynamon:



## When to apply Dynamon?

Ideally, it is beneficial to combine the sulphur application with the nitrogen application due to the synergy of these two elements.

Therefore, Dynamon can be applied at each spreading session along with nitrogen to meet the needs of the crops.

# Sulphur application in winter grain

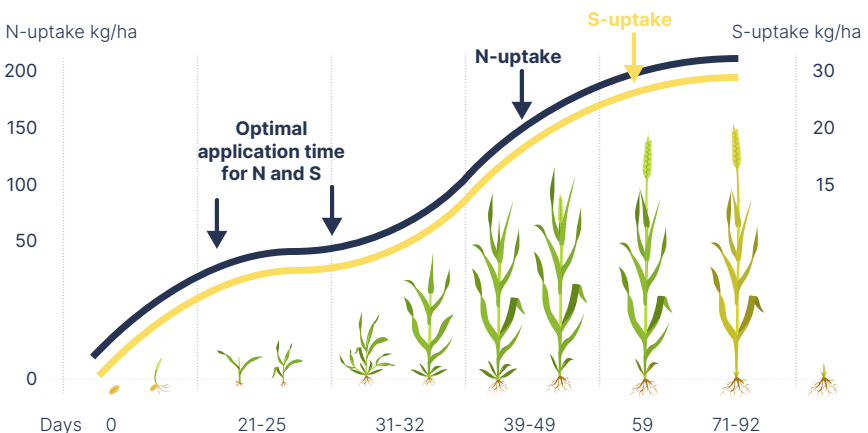
In winter grain, there is a **close relationship** between nitrogen and sulphur housekeeping. The uptake of nitrogen and sulphur runs parallel during the growing season. Therefore, it is important that **sufficient sulphur is available**. The largest uptake of sulphur takes place from May to June. Sulphur content determines nitrogen absorption. Sulphur is also involved in photosynthesis and protein production. Cereals and other crops like rapeseed have **high protein**

**requirements**, particularly at the seed formation stage.

Nitrogen and sulphur can be applied at different stages in the cereal's development. It is recommended to combine these two elements when fertilising, right **from the start of the crop**, but especially at the tillering stage.

Sulphur plays an important role in the build-up of **grain protein**. By using Dynamon, a higher content of protein can be obtained which results in **higher baking quality**.

## Mineral absorption for cereals



# Sulphur application in grass for forage production

Grassland requires a significant amount of sulphur to produce a **protein-rich fodder** out of the first and second cut. Sulphur from animal manure in the soil is then insufficient for the crop. A sulphur application is necessary to meet the sulphur needs of the grass.

Exclusively, with this, a qualitatively good grass cut is achievable. Using Dynamon on your grassland can ensure that there is **enough nitrogen and sulphur available** during the growing season.

## Mineral absorption for a permanent grass 3 cuttings



# Consciously and precisely fertilise

As a farmer, you fertilise more consciously and precisely. Therefore, you opt for quality fertilisers with **maximum nutrient utilisation** by the crop. Dynamon is a fertiliser where nitrogen and sulphur are evenly distributed in the granule. Furthermore, the granules are hard, homogeneous, round, smooth, and dust-free. These characteristics enable the fertiliser to be spread evenly and over **large widths**.

By using Dynamon, you improve the efficiency of nitrogen uptake by your crops, enabling you to produce more **sustainably**, without any extra effort.

## Want to know how to use Dynamon on your farm?

Read the information at

