

RETORTE GmbH – Your reliable partner

One of our strengths is individual advice and the production of specific mixtures. Whatever the customer needs, our experts will find the right solution:

- **SODIUM SELENITE**
- **SODIUM SELENATE**
- **PREMIXES**
- **SOLUTIONS**

We adapt to the processes of producers within the animal nutrition industry

- **AS POWDER**
- **IN LIQUID FORM**
- **FROM A FEW GRAMS
TO SEVERAL TONNES**

No compromises on quality:

► Retorte guarantees consistent 99.8 % purity for selenium additives such as sodium selenite.

► Quality is a top priority at Retorte.
As a specialist when it comes to selenium, we are involved in every control and production step along the value chain – starting with raw selenium through to our high-quality premixes.

► We test the constant quality of our products in our own laboratory and work with external research institutions on innovative solutions and new uses of selenium.

► We meet all requirements in the areas of quality management, sustainability, environmental protection and social responsibility.



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Selenium – The essential trace element
for animal nutrition



RETORTE

When it comes to consistently high quality and reliability.

Two centuries ago, chemist Jöns Jacob Berzelius discovered the chemical element selenium, the name of which derives from the Greek word for moon. Due to its interesting optical, thermal, electrical and piezoelectric properties, the industrial use of selenium is in high demand and has increasingly become the focus of research and development in recent years. This non-metal is a trace element essential for human and animal survival. This is why sectors like the animal nutrition industry and the livestock industry need the active ingredients of selenium to achieve the desired effect in their products.

Selenium from a mineral source (sodium selenite) is traditionally used as a dietary supplement in the animal feed industry. The common feed-stuffs are predominantly low in selenium and do not provide the minimum required selenium. The addition of the trace element not only ensures an optimal supply of nutrients but also protects each livestock organism.

The performance, fertility and growth of the animals is also guaranteed by a need-based supply of selenium. The supply of inorganic selenium compounds is particularly important for young animals – as if there is a deficiency, they run

the risk of developing muscular dystrophies, for example.

What sounds like a simple process – add selenium and you're done – is more complex than it sounds. Due to its potential toxicity, it is also vital to avoid an oversupply. The maximum content is therefore 0.5 milligrams per kilogram of complete feed or total ration.

The correct mixing ratio is therefore essential for animal welfare. RETORTE specializes in this. As your reliable partner, RETORTE offers different premix products with different selenium contents (Retosel) or with the addition of iodine (Retojo). The mixtures contain


selenium as sodium selenite Na_2SeO_3 and the carrier calcium.

The production chain for the selenium-sodium selenite premixes is entirely in the hands of RETORTE. Right from the start as a producer, RETORTE participates in every production and control step of the selenium-sodium selenite premixes and so assures a consistently high quality.

A high degree of safety, purity and quality of selenium is particularly important in the animal feed industry. As an essential trace element, in addition to the complete traceability of the product, it must also be

ensured that the product does not contain any contamination, heavy metals or similar. RETORTE guarantees a constant purity of 99.8 % for selenium additives.

Due to its more than 70 years of experience and the continuous certification for the trace element selenium, RETORTE can offer its customers this high and excellent quality. All Retosel products are therefore free of GMO and BSE/TSE risk materials and have the „feed grade“ in accordance with VO 1831/2003, 49/2019 and RL 2002/32/EC.



Selenium is an essential element in feed for the livestock industry. To meet the complex requirements, you need a reliable partner like RETORTE.