



## Feed additives

# Zinc Sulfate Zn-35

Content: Zn – 35%



We enhance nature  
[www.arkop.pl](http://www.arkop.pl)

### Description and performance

Zinc content in feeds, especially plant ones, is low and thus insufficient for correct development of animals. Supplementing the dose of zinc supplied to animals with Zinc Sulfate Monohydrate (feed additive for animals – E6) covers the animals' nutrition needs, ensuring their correct development.

We offer Zinc Sulfate in the form of crystalline powder – ranging from white to light cream, in the following packages:

- 25 kg paper bags
- 1000 kg big-bags
- in bulk – collection in silo trucks.

**Product shelf life:** 2 years of the production date.

Chemical symbol	Zn-35 content [%]
Zn	35
Pb	max. 0.01
Cd	max. 0.001
As	max. 0.003
H <sub>2</sub> O	max. 1.2

### Zinc and its significance

**Zinc** is one of indispensable mineral components needed for the life functions of the animal organism. It is a component of:

- approx. 200 metalloenzymes determining the animal's growth and health
- the basic enzymes taking part in transformation of nitric compounds, carbohydrates, fats and vitamins
- indispensable for correct DNA and RNA synthesis
- taking part in the factor sets responsible for distinguishing taste and smell (consumption of feed), immunological resistance (health), reproduction and lactation (procreation), and other reactions associated with the animal's environment. Higher immunity to epidermis and hoof cornification. Zinc ions also participate directly in generation, storage and secretion of insulin, as well as in digestion processes.



# Zinc sulfate Zn-35

## Consequences of zinc deficiency:

PRODUCTION	HEALTH
<ul style="list-style-type: none"><li>• reduced pace of growth</li><li>• no appetite</li><li>• weak utilization of feed</li><li>• low libido</li><li>• low effectiveness of mating</li><li>• low ovulation</li><li>• low number of litters among pigs</li></ul>	<ul style="list-style-type: none"><li>• parakeratosis of skin, paunch, feathers</li><li>• decreased immunological resistance and consequently higher susceptibility to infectious diseases</li><li>• hoof diseases, lameness as a result of animal culling</li><li>• poor quality milk and consequently poor results of calf and piglet rearing</li></ul>

## Consequences of zinc deficiency for individual animal types:

### CATTLE

Supply of zinc is the primary factor reducing the content of somatic cells in milk (the lower the number of somatic cells in milk the higher the milk class). High level of somatic cells in milk is associated in most cases with hoof diseases, in particular in litterless cowsheds. Reduction and elimination of these problems requires appropriate levels of zinc in the dose.

### PIGLETS

Zinc hinders development of pathogenic bacterial flora in the intestinal tract, in the first days after weaning, when the piglets start to eat solid feed in larger quantities, without digesting it well. This also increases the level of glucose in blood, below the kidney threshold, contributing to better tissue nourishment, leading to higher immunity of young animals to stress associated with weaning.

### POULTRY

Zinc takes part in development of the egg embryo which is associated with good hatchability. It also takes part in mineralization of the egg shell and sedimentation of mineral compounds in bones. It takes part in the skin tissue regeneration processes, especially in the moulting period.

## ARKOP

We have been building our experience in the animal nutrition industry since 1992. Our goal is to manufacture feed additives making it possible to derive the very best nature has to offer... For this reason, our extensive product range entails the latest developments in biotechnology, in particular top grade chelates (chelation level confirmed by authorized laboratories).

As a result of our close long-term cooperation with scientific institutes and universities, we have manufactured proven and effective products. We constantly monitor our production process and incorporate the requisite modifications in striving to continue improving our offer and aligning it to meet customer needs and expectations.

We apply and constantly develop our integrated food quality and safety management system **ISO 22000 (HACCP)** and **ISO 9001**. As a confirmation of adherence to the most stringent requirements in this area, we have obtained the integrated management system certificate – **PN-EN ISO 9001:2009** and **HACCP – PN-EN ISO 22000-2006**. We also have the European quality system certificate for feed additives and premixes **FAMI-QS**.

Caring for the right quality of our feed products, we have joined European producer organizations, TREAC and EMFEMA, thanks to which we keep track of prevailing requirements regarding feed additives and adapt our production to satisfy them. Consequently, we can ensure that application of our feed additives is safe for the health of animals and brings great animal rearing results.

Currently we work with customers from across the world.



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