



Amino acidic feed chelates

MetStar Zn



Zinc methionate

Description and performance

MetStar Zn is an zinc amino acid chelate feed based on methionine, whose quality has been proven by tests. **MetStar Zn** – manufactured on the basis of Arkop’s proprietary technology – is characterized by a very high level of chelation and perfect mixability. It is a stable chelate with a broad pH range which supplying the animal’s organism with not only the required mineral – zinc, but also a very important factor for the ruminants’ diet – methionine.

Methionine (MET) and its role

Methionine is a very important exogenous amino acid from the sulfur amino acid group. Methionine forms cysteine, the second most important sulfur amino acid. Methionine also takes part in the muscle protein synthesis processes and in over 100 metabolic processes.

In the animal’s organism it plays a number of functions, inter alia:

- as a sulfur-containing amino acid comprised in ceratine, it is one of the main building blocks of fur, hair, skin, claws and hoofs
- it has detoxicating effects – indispensable for increasing the synthesis of glutathione which cleans the liver of toxins such as free liberals or heavy metals
- it prevents formation of calculi and has biligenic properties (it protects the urinary tract and biliary tract against inflammations as it prevents formation of depositions)
- it significantly impacts the animal’s overall immunity
- it participates in creation of choline and epinephrine.

As an amino acid that is not produced by the animal organism, methionine should be regularly supplied in the feed (methionine together with cystine are classified as the first amino acid limiting growth in the diet of poultry and the third one in the case of pigs). Whereas the usual feed materials (e.g. soya middlings) contain insufficient quantities of this precious amino acid. Satisfaction of the animal’s demand without this amino acid would require application of an extremely high level of protein in the feed. Such feed would be expensive, much more burdensome for the animal’s organism and natural environment (high nitrogen emissions into the air).

Item	Methionate Zn-18,5
EU registration no.	3.1.3
Element	Zn-18,5%
Methionine	min. 80%

