



PoederAg

*Activated Drying Agent Used
Exclusively for Livestock Production*



New antibacterial bedding conditioner that combines the effectiveness of activated mineral with a well-known Silver Ion technology.

Offers a safe environmental alternative to the antimicrobial agents currently employed in most bedding conditioners. Silver Ion technology has been shown statistically not to trigger antimicrobial resistance in bacteria.

Chemistry based approach to malodor control – targets N (nitrogen in amines-urine) and S (sulfur in feces) molecules.

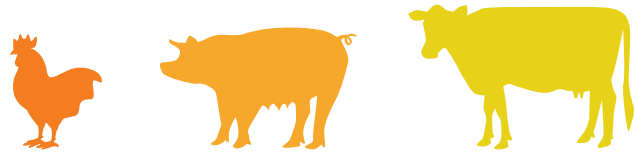


General characteristics:

- ✓ Non clumping function
- ✓ High water absorption
- ✓ Fast neutralizing of ammonia and volatile compounds
- ✓ Reduction of the microbial load of the litter
- ✓ Improvement of environmental conditions in the animal buildings
- ✓ Protection against bacterial infections (e.g. pododermatitis)
- ✓ Provides cleaner and healthier skin surface
- ✓ Removal of odors



matrix
ENVIRONMENTAL SOLUTIONS LTD.



The surface area of PoederAg is 250 m²/g

If we open the surface of all pores, with only one gram of PoederAg, we can cover a surface of 250m², that makes PoederAg the larger molecular "sponge" in comparison to other minerals such as zeolite, having a surface area of only 40 m²/g. This property is directly connected to the water absorption capability of the two minerals, e.g. for PoederAg 130% for the coarser and 200% for the finer particle sizes, while for the zeolite is only 35 - 40% absorption. In the same way, through the porous structure of PoederAg, the absorption of ammonia takes place.

PoederAg absorbs water and neutralizes ammonia along with other volatile compounds protecting productive animals from respiratory complications and microbial contaminations. This optimizes the environmental conditions in the buildings and the health status of the animals.

The technologically advanced in PoederAg consists of odor-fighting molecules that target the very source of fecal and urine components, offering immediate and lasting deodorization.

Quick Fact regarding the concentration of ammonia in the livestock houses:

It has been demonstrated that a concentration as low as 10 ppm of ammonia causes excessive mucus, damages the cilia and impairs the elimination of pathogens. At 25 ppm, cilia stop moving and the occurrence of respiratory disease increases. At 40 ppm, cilia are destroyed. It could take 14 days to re-build the cilia in a healthy environment.



Ammonia molecule

Would you use a product with a pH of 3?

pH 3 = gastric acid, hydrochloric acid, nitric acid, orthophosphoric acid, citric acid, hydrofluoric acid, nitrous acid, lactic acid, acetic acid ...

- ✘ Chemical burns to the skin of the animals along with their feet.
- ✘ High corrosion of the metal parts of the building and the nearby machines that are having metal parts and accessories.
- ✘ Chemical burns to the skin of the workers and their eyes.
- ✘ Respiratory problems for the animals and the workers. Using a protective mask when applying a product with pH=3 is of high importance for your health and your safety.