



HYGIENE LINE

Protect your animals from infections

Bringing animals into the barn generates elevated pathogenic levels, **high levels of ammonia and subsequently unhealthy high pH levels.**

“A low pH is better for the animal skin and still has an antibacterial effect”

Jan van Wyhe-Storgaard, biochimico, Vilofoss

A pH above 12 will kill most bacteria

Hygiene powder products that kill bacteria on the basis of high pH are typically based on hydrated lime or similar products. Those raw materials have a highly alkaline pH of 12,4 which makes them capable of killing most pathogenic bacteria. The antibacterial effect is created from the corrosive effect that leads to a breakdown of the cell membrane of the bacteria and subsequently death.

Hygiene powder products with pH 12 is corrosive to animal skin

The corrosive effect does not stop with the bacteria, but also corrode and breakdown any animal skin surface that may come into contact with hygiene powder products with high pH. The results from this corrosive effect can be a severely weakened skin surface and reduced defence system. Therefore, we cannot use alkaline hygiene powder products with high pH to control and kill bacteria in resting areas, because the animals will get into contact with the powder and suffer from skin burns and increased risk of infection.

Hygiene powder products with pH below 4 are ideal for controlling bacteria in animal resting areas

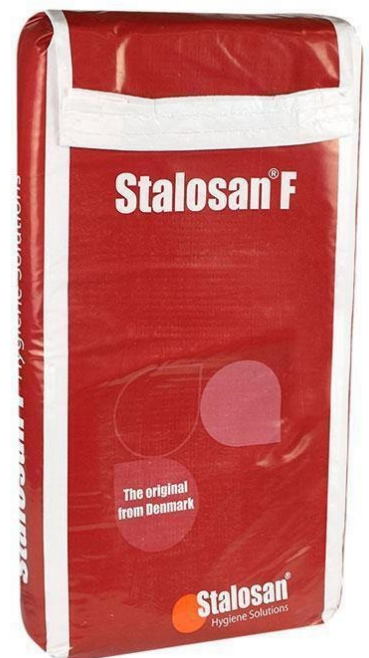
Controlling and killing pathogenic bacteria can also be achieved at a pH below 4. The reason is that most pathogenic bacteria can live and survive at a pH between 4 and 12, so if the pH in the environment is pushed below or above, it is possible to create an antibacterial effect. But since animal skin itself has a natural low pH, it is not sensitive to low pH. **In fact, animal skin can accept a pH down to 2 before it will become irritating. So, there is an antibacterial window between pH 2 and 4, where bacteria will suffer without damaging the animal skin. At the same time the low pH will support the skin and sebum, and increase the resistance towards bacteria and ammonia. Finally, since hygiene powder products with a pH below 4 are acidic, they are capable of neutralising alkaline products like ammonia.**

Hygiene powder products with a pH of 12 or above are based on hydrated lime and they breaks-down and counteract the low pH of the skin. **Stalosan F has a pH of 3,5, which supports the low pH of the skin. Therefore it is antibacterial but not corrosive to the skin surface of animals.**

The high concentration of active substances and antimicrobial mineral acids in Stalosan F is proven to kill pathogens, neutralize ammonia, lowers the pH and keep the environment dry.

Advantages of Stalosan F

- A multifunctional biocide that provides ongoing protection against pathogens and harmful waste products during the full animal production cycle.
- Active in presence of organic materials with an effect that lasts at least for a week.
- The only approved biocide (or disinfectant) in ready to use powder form.
- Contains more than 95% active ingredients, which lower the infection level and control the negative impact from harmful waste products and elevated pH-values in the barn environment.
- Eliminates pathogens (bacteria, viruses, fungi and parasites).
- Inhibits bacterial enzymes.
- Neutralises harmful waste products such as ammonia and hydrogen sulphide.
- Regains a natural low pH-value in the animal environment and therefore strengthens the animal resistance towards infections.
- High effect with a low dosage makes it cost effective.



Lowers pH



Kills Pathogens



Neutralizes Ammonia

Stalosan F is made of fine particles to increase the contact surface and thereby increasing the efficacy. The fine particle size is also ensuring a high floatability and subsequently a complete coverage of treated areas. This floatability is very crucial for the effect of powder products in general, since once they are added to a surface, they will no longer be able to flow out and give a full coverage.

STALOSAN F FOR PIGS

Stalosan F plays an important role in the farm biosecurity system, providing protection of animals against diseases during the whole production cycle, reducing infections and increases the overall health and profitability of the herd.

Stalosan for piglets (farrowing)

Newborn piglets are very susceptible to diseases, therefore Stalosan plays an important role for disease prevention in the farrowing house with significant result on production results.

Mortality is reduced up to 10%
Over 50% reduction in medication costs
250 g extra weight at weaning
+ ½ piglet/sow/litter = + 1,2 piglet/sow/year



Stalosan for sows – A.I.

Insemination is a critical manipulation for the overall production results. If conducted in the service area Stalosan F improves the environment conditions and increases the insemination rate.

+ 3% conception rate
+ 5% conception rate on return
- 3 % replacement rate



Stalosan for pregnant sows

With the group management of pregnant sows, new challenges appear for the farmers. It is not possible to apply “all-in, all-out” AIAO strategy with consecutive cleaning and disinfection, building up of a manure and its impact on animal health and performance.

Reduction in mastitis incidences
Reduction in metritis incidences



Stalosan for weaners (nursery)

Weaned pigs are an important target for Stalosan F application. The immunological gap, stress of group forming and feed change make the pigs highly vulnerable to various microorganisms. **In this regard, Stalosan F is capable to reduce the pathogen challenge significantly, providing a reduction of diarrhoea and pneumonia cases. The main benefit of pig health improvement is the reduction of antibiotic treatments, resulting in not only reduced medication costs, but also reduced resistant phatogen strains and keeping antibiotics potency.**

Diarrhoea incidences are reduced up to 50%
More than 60% reduction in medication costs
A better start



Stalosan for growing and fattening pigs

For growers and fatteners Stalosan F can be applied during the critical periods like forming new groups, prophylactic treatments, feed change, etc. in order to reduce the pathogen pressure and morbidity as a consequence.

Stress reduction
Uniformity





STALOSAN F for Goats and Sheep

Goats

Aside from the expected benefits of ammonia control and a drier environment, there is particular value in using Stalosan F for the control of mastitis in milking goats.

The straw or bark covered floor will be drier and thereby reduce the effect of bacteria and parasites at the same time as assisting with mastitis prevention and hoof health.

The use of Stalosan F is an ideal product to improve the environment for goat herds and the staff who work with them.

It may also be used as a foot bath at the entrance to the goat sheds to prevent contamination into the sheds.

Sheep

Stalosan F has been proven effective against many problems, both when caused by bacteria and certain parasites. **Examples include coccidiosis, arthritis, skin problems and flies.**





Other Stalosan products

STALOSAN DRY

Stalosan Dry is a slightly acidic hygiene powder product that absorbs water and neutralises ammonia.

Stalosan Dry supports animal resistance and welfare.

Stalosan Dry has a soft structure that gives a high animal comfort in resting areas.

Can be combined with Stalosan F for increased antimicrobial control.



STALOSAN BASIC

Stalosan Basic is an effective hygiene agent. The combination of low pH-value and strong desiccating properties gives Stalosan Basic a unique efficacy profile, that reduces the development of harmful substances in the animal environment and improves animal welfare.

The mineral acids in Stalosan Basic prevent the breakdown of sebum and skin and thereby protect the animals.

Stalosan Basic possesses a highly active neutralisation process that breaks down ammonia and hydrogen sulphide.



STALOSAN GREEN

Stalosan Green is a mixture of special active ingredients that imitate the well-documented effect of Stalosan F.

Stalosan Green is an alternative and unique way to improve the health status in animal production.

Lowers ammonia and hydrogen sulphide emissions

Regular addition of Stalosan Green stabilises the microbial flora and chemical balance of the litter.



How to use Stalosan

Simple	Allows for easy dispersion using a handyman, leaf blower or other suitable devices
Safe	<ul style="list-style-type: none"> • Won't harm the eyes or lungs of animals or humans • Can be applied while animals are in the barn
Convenient	<ul style="list-style-type: none"> • For other animals, dust at any time • For laying hens, wait until evening and turn down lights before spraying
Effective	No need to alternate with other products to maintain efficacy
Efficient	Application amount – 50 g/m ²
Flexible	<ul style="list-style-type: none"> • For maintenance, apply once a week • In case of elevated moisture and/or pathogenic load, apply as needed
Adaptable	<ul style="list-style-type: none"> • Supports your biosecurity efforts • Can be used as a dry disinfectant for boots before entering the barn

STALOSAN HANDYMAN

Stalosan Handyman is a practical tool for a quick and economic distribution of Stalosan with a perfect distribution that ensures a maximal effect.

Handyman, which is powered by a standard drill, spreads Stalosan easily and quickly into the stalls. The material is spread directly to the side and backwards, so there are no problems with dust.

Handyman can also be used for spreading while the animals (cows, pigs, sheep, horses etc.) are present in the barn.



STALOSAN BY HAND

Sprinkle 50 g/m² of Stalosan all over the surface. Make sure to have a uniform spread.

STALOSAN BLOWER

With a blower, Stalosan F can now be spread effectively throughout the housing unit in a matter of minutes.

You can cover roughly 100 m² from one position using the blower, and it takes about 1 minute. In larger housing, select a number of positions from which the entire area can be reached.

For instance, an animal housing structure of 500 m² requires 5 strategically placed blowout points.

Normally, the blower can disperse 4 kg Stalosan F in 1 minute.



STALOSAN BOOTH BATH

Apply an adequate amount of Stalosan to a container that will be able to cover possible contaminated areas on the boots. Go into the bath and move the boots around to ensure a full coverage of all parts of the boots.





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