

Farm



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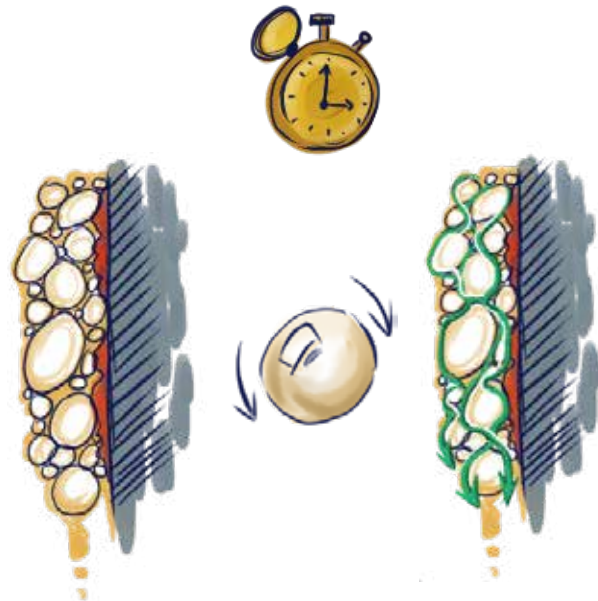
Foam cleaning



Foam cleaning

Principle of foam cleaning

Foam consists of many air bubbles surrounded by a skin of detergent solution. The foam is the carrier of the detergent solution. These bubbles disintegrate on the surface and a film of cleaning agent forms. The foam causes the solution to stick even to vertical surfaces and ceilings. This ensures a long contact time between the surface to be cleaned and the cleaning solution.



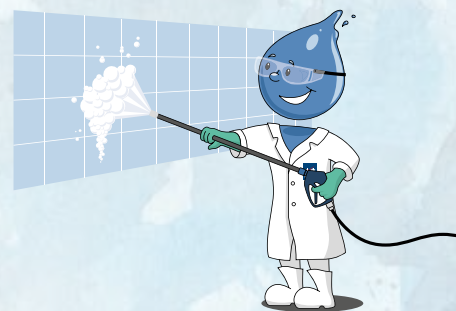
Advantages of foam cleaning

- ✓ Time-saving
- ✓ Optimum use of cleaning agents
- ✓ No manual scrubbing necessary

Application areas

- ✓ Milking parlour cleaning
- ✓ External cleaning of milk tanks
- ✓ Stables and dairy houses
- ✓ Calf igloos

Alkaline foam cleaning



calgonit AF 110

calgonit AF 110 is a powerful liquid detergent concentrate with a pleasant smell. calgonit AF 110 is especially suitable for basic cleaning of chicken coops and other unoccupied stables. Due to its special combination the product is especially suitable for removal of tenacious soil. calgonit AF 110 does not attack the common materials in stables and leaves a pleasant, hygienic odor after use.

- ✓ Good material compatibility
- ✓ Removes tenacious soil
- ✓ Economic in use



23 kg canister

calgonit NF 400

calgonit NF 400 is an optimised, liquid foam detergent with high caustic content designed for use in the food industry. The product develops a stable foam with good cling and rapid soil penetration. calgonit NF 400 is suitable to remove especially stubborn and carbonised soils like tar, burned grease, starch and protein and therefore is preferably used for smoke house cleaning.

- ✓ Stable foam
- ✓ Very quick soil penetration
- ✓ Removes difficult deposits



24 kg canister
260 kg barrel

calgonit NF 422

calgonit NF 422 is a highly active alkaline foam cleaner for difficult cleaning tasks in livestock farming. The product forms a stable, long clinging foam and is suitable for cleaning of machinery, walls and floors. calgonit NF 422 is particularly useful where fat, oil and protein soiling is encountered and can also be used on heated surfaces.

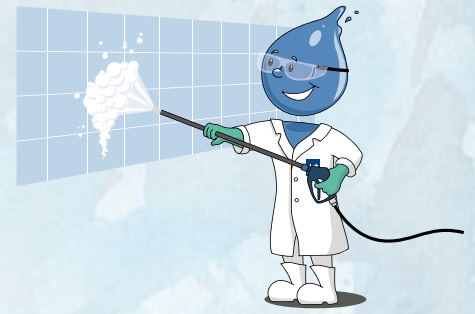
- ✓ Long cling foam
- ✓ Chlorine free
- ✓ Phosphate free
- ✓ Excellent cleaning action



24 kg canister
235 kg barrel



Mild alkaline and chlorine-containing foam cleaning



calgonit CF 315

calgonit CF 315 is a liquid alkaline foam detergent with active chlorine. The product is suitable for all degrees of water hardness and contains a special inhibitor allowing the use on aluminium and galvanized steel. calgonit CF 315 removes effectively fat and protein as well as any other persistent, organic deposits. It leaves the cleaned surfaces in excellent hygienic condition. calgonit CF 315 is normally applied for foam cleaning of machinery, tanks, tiled walls and floors. The product gives a stable foam and is easily rinsed off. For basic cleaning of heavily soiled parts or containers calgonit CF 315 could be used for immersion cleaning.

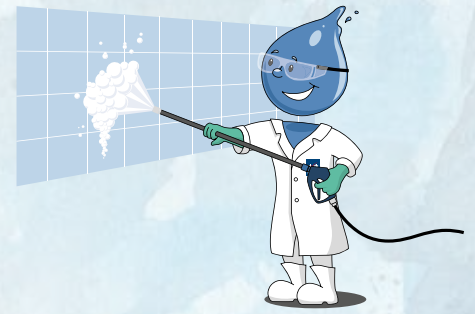


24 kg canister
230 kg barrel

- ✓ Stable foam
- ✓ For all degrees of water hardness
- ✓ Excellent fat solving
- ✓ Economic in use



Acidic foam cleaning



calgonit SF 520

calgonit SF 520 is a phosphoric acid based foam cleaner. The product produces, due to a special surfactant composition, a very stable, long cling foam and removes even tenacious soils like lime scale, rust and protein as well as residual alkalinity from previous cleaning steps. calgonit SF 520 produces hygienic clean and sparkling surfaces.

- ✓ Long cling foam
- ✓ Removes even tenacious soils
- ✓ Economical in use



24 kg canister



Stable hygiene



Passionate about stable hygiene

Ensuring the health of animals in stables is an essential part of the agricultural hygiene-sensitive production process. Insufficient hygiene endangers the livestock and affects the success of the primary operation. The regular execution of cleaning and disinfection is therefore mandatory in modern animal husbandry. After pre-cleaning or after soaking the surfaces that require cleaning, we offer high-alkaline foam cleaners for the residue-free removal of fat, protein, faeces and biofilms. The products that we offer are characterised by an excellent cleaning performance, high foam stability and economical use. After the cleaning process has been finalised, the disinfection works against microorganisms like germs, viruses, fungi and parasites.

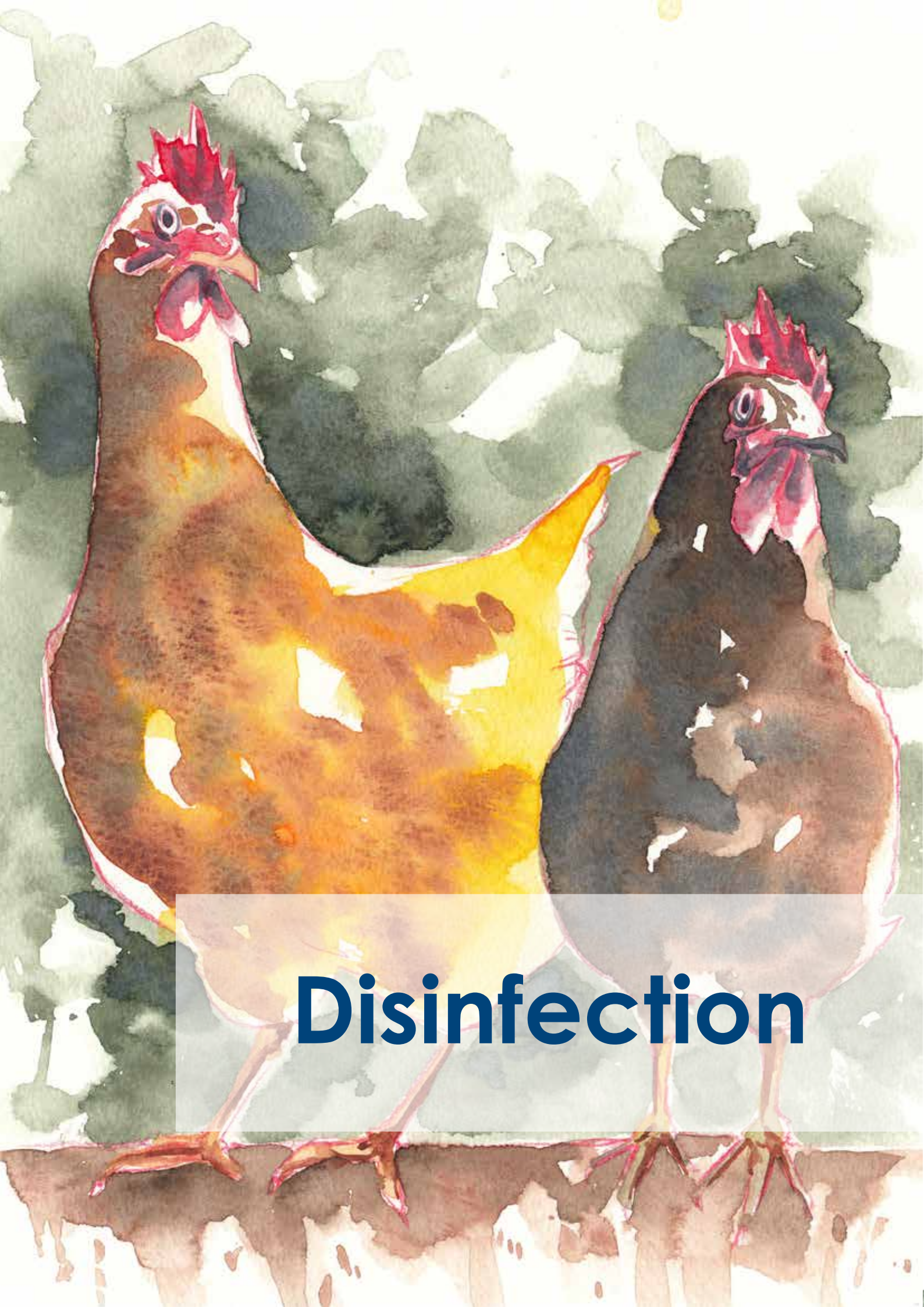
Thorough stable hygiene provides excellent prevention, thereby reducing antibiotic use. Depending on the product, proof of efficacy according to DVG guidelines and/or European standards such as EN 14349. Important points in stable hygiene, which must always be respected, are clean work clothes, the wearing of milking gloves as well as the washing and disinfecting of the hands before and after milking. We are happy to help you to protect yourself and your stock. For the requirements of the 16th AMG amendment (reduction of antibiotic use in agriculture) your hygiene management is of particular importance. Hygienic measures are relatively easy to realize without large investments.

Generally, hygiene always pays off:

- ✓ Due to lower veterinary and medical costs
- ✓ Better performance
- ✓ Fewer losses

Please consider domestic guidelines concerning application as well as registration of biocides.





Disinfection

Stable disinfection



calgonit sterizid forte 15*

calgonit sterizid forte 15 is a liquid, acidic disinfectant based on peracetic acid. It effectively kills bacteria, spores, yeasts, fungi and viruses even at low temperatures. calgonit sterizid forte 15 does not foam and is suitable for disinfection tasks in the food industry. The product is suitable for general surface disinfection, for automatic sanitation of tanks, containers, pipes and equipment as well as for use in water stages of bottle washing machines. Furthermore the product can be used for intermediate disinfection of milking equipment, tube milking machines and for sanitation of animal sheds after cleaning.



30 kg canister

- ✓ Broad spectrum kill
- ✓ Non foaming

Application	Application-concentration	Application Quantity
Disinfection after	20°C	
EN 1276 bacteria	0,025%	5 min.
EN 1650 yeasts	0,1%	15 min.
EN 1650 Mushrooms	1%	15 min.
DVG Unenveloped viruses	0,5%	60 min.
DVG Enveloped viruses	0,2%	60 min.
Stable and surface disinfection	0,5 - 1%	30 - 60 min.
Disinfection of tanks, pipelines, milk collection trucks	0,1 - 0,3%	20 - 30 min.
Stand disinfection (pipelines)	0,02 - 0,05%	10 - 12 h
Intermediate disinfection of clusters	0,5 - 0,7%	immerse

*Use biocide products with care. Always read label and product information before use.



Stable disinfection



calgonit DS 680 forte*

calgonit DS 680 forte is a concentrated surface disinfectant with excellent bactericidal, levurocidal and virucidal effects, suitable for disinfecting stables, stable equipment and animal transport vehicles. calgonit DS 680 forte obtains its broad microbiological spectrum of activity by the surface active agents used, which allow complete wetting of all surfaces and thus safely disinfect even uneven surfaces. The application takes place over spray-, foam- or fogging equipment. calgonit DS 680 forte has been tested according to the current European standards.



10,1 kg canister
205 kg barrel

- ✓ Bactericidal

Application	Application Concentration	Active time
EN 1656, EN 14349 bacteria 10°C	1,0%	60 min.
EN 1657 yeasts 10°C	0,25%	30 min.
Enveloped viruses (DVG Method) 10°C	1,5%	30 min.
Nonenveloped viruses (DVG Method) 10°C	6%	120 min.

calgonit Virofin*

calgonit Virofin is an innovative, highly effective and versatile broad spectrum disinfectant. The product is suitable for use on surfaces, appliances, water systems and air. The combination of surface active agents, potassium peroxomonosulfate and organic acids ensures highest disinfection performance.

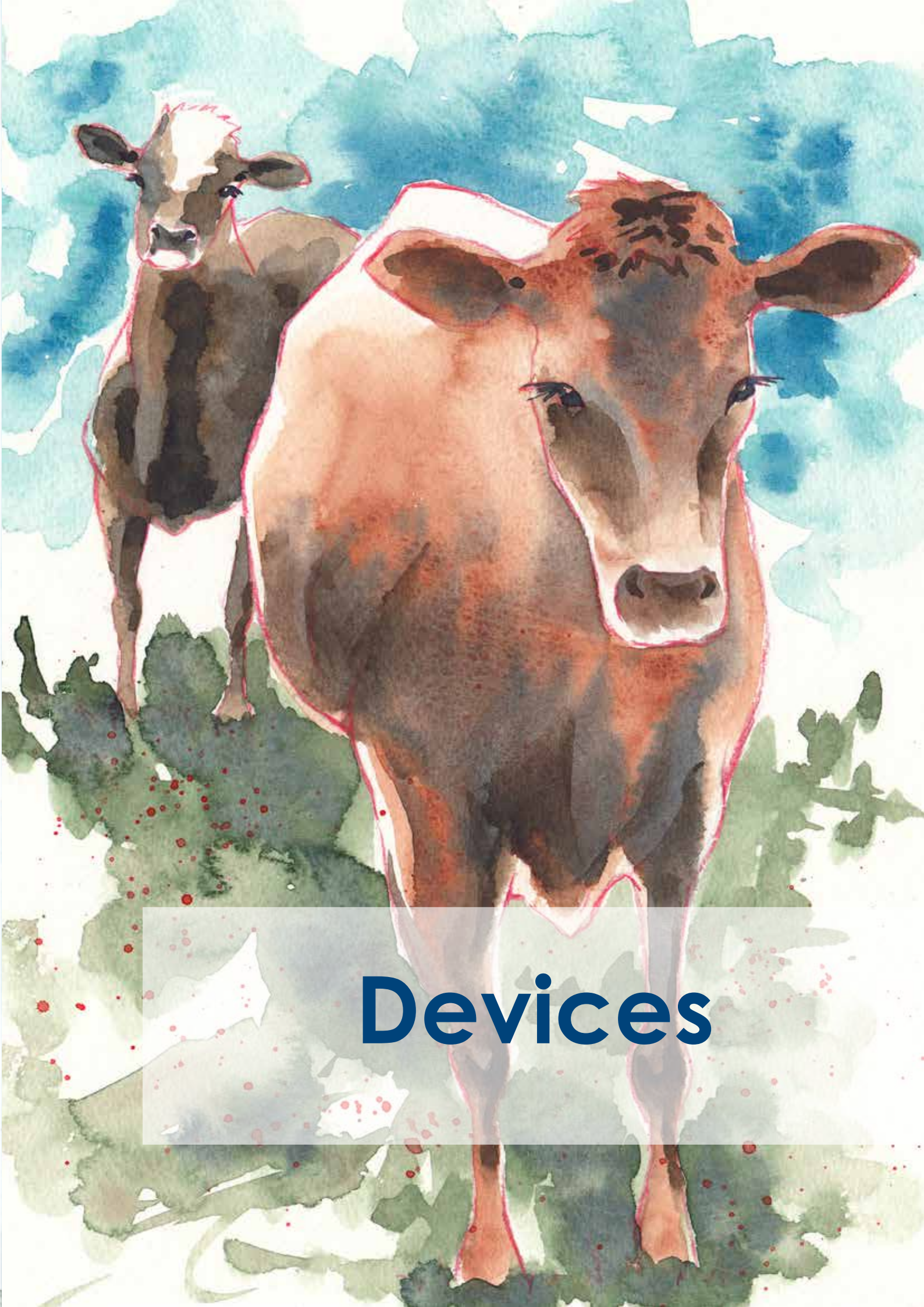


5 kg Bucket
10 kg Bucket
20 kg Bucket
4x1 kg Tin

- ✓ Quick action
- ✓ Suitable for all surfaces
- ✓ Highest efficiency

Application	Application Concentration	Application Quantity
Immersion bath	20°C	
EN 1276 bacteria	0,5% / 5 min.	
EN 1650 Yeasts	1% / 15 min.	
Surface disinfection	1%	0,4 L / m ²
Disinfection of devices	1%	0,3 L / m ²
Disinfection of shoes and tires	1%	
Drinking water system disinfection		
Basic disinfection	1% / 10 min.	
continuous disinfection	0,01%	
Air disinfection	0,5%	1 L / 10 m ²
Cold Nebulisation	1%	1 L / 10 m ²





Devices

Devices



High pressure foam lance LS 10

The calgonit foam lance LS 10 is ideal to foam soiled surfaces. calgonit foam lance LS 10 combines economic dosing rates with rapid application and can be easily connected to high pressure cleaners.



calgonit foam cannon

The calgonit foam cannon is easy to apply, as normal domestic water pressure of 2 - 5 bar is already sufficient. With a flow of 6 l / min you are able to clean surfaces quickly. The product concentration can be adjusted by simply turning the dosing head.



Domestic water pressure foam lance SG 2

The domestic water pressure foam lance SG 2 works with a normal house water pressure of 2 - 5 bar and thus guarantees an effective cleaning process. The parts of the device that come into contact with the foam cleaning agent are entirely made of plastic and cannot corrode therefore.



Drinking water management



Drinking Water Hygiene made to measure

Optimised drinking water quality A must in modern animal husbandry!

Normal drinking and well water naturally contains small amounts of bacteria. These bacteria are not harmful, as they are harmless on their own or occur in far too small numbers in drinking water.

When biofilm formation begins, bacteria settle in the pipes and hide under a self-produced protective slime layer.

Bacteria are also introduced into the water supply system from the side of the barn and settle in the biofilm. In these biofilms any kind of bacteria can Biofilms, both good and bad, are created by the intermittent release of large quantities of bacteria into the drinking water, but also by the slow growth of the pipe. As a result, their quality deteriorates considerably and can lead to diseases in the animals.

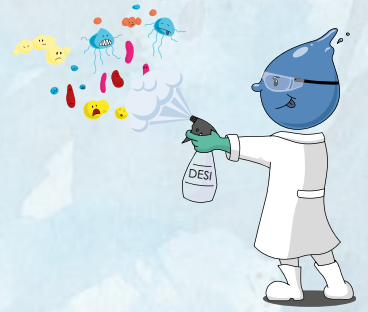
This results in a deterioration of animal health, insufficient master results and increased treatment costs. As a result, a lower return for you.

Stable hygiene as a passion

This means for us:

1. Visit by appointment by our employee
2. Examination of the existing feeding pipe (endoscope camera) and Assessment of the piping system
3. Determination of water quality
4. Discussion of the barn performance
5. Consultation
6. Establishment of a water management system
7. Continuous support of the company by our employees

Cleaning of drinking systems



We distinguish two types of cleaning of drinking water pipes

- A. Stand cleaning in an empty barn without animals
- B. Drinking water treatment in the occupied barn

Note: Since it is rare for pigs and cattle to leave the barn empty, drinking water treatment is almost exclusively used here during operation.

A. Stand cleaning

With an unoccupied barn, the stand cleaning should loosen deposits, impurities and biofilms in the drinking lines and remove them by rinsing. For stand cleaning, the watering system is flooded with the acidic cleaning agent calgonit SN 578 or the alkaline calgonit RFS. The medication dispenser can be used for this. We recommend an application concentration of 3 - 5% for both products, with an exposure time of 6 to 12 hours. An additional mechanical compressed air impulse rinsing with the calgonit DWS-Mobil considerably increases the success of a clean, hygienic drinking system, since the removal of the dirt is strongly supported mechanically.

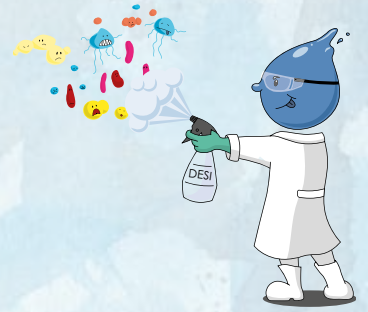
The calgonit DWS-Mobil uses compressed air, for which a compressor is required, and water to generate water columns of varying strengths at variable time intervals.

Note: Set the float box for poultry drinkers to flow! After cleaning it is recommended to check the drinker line with an endoscope or an endoscope camera. This check can of course also be useful before cleaning. This allows you to immediately recognize the degree of contamination of the system and you can already draw conclusions about the nature of the residues.

For biofilm and mineral deposits, calgonit SN 578 is more effective, whereas deposits from drug residues or essential oils are better cleaned off with calgonit RFS.



Stand cleaning



calgonit RFS

calgonit RFS is a high caustic alkaline intensive cleaner. The product is optimized to be used with all water hardnesses. calgonit RFS is for regular cleaning of milking systems and automatic milking systems and ideal for basic cleaning of milking systems as well. Calgonit RFS is the optimal cleaner for thorough removal of deposits in liquid feeding devices, pipework of drinking troughs as well as (in concentrate) to fog with special nozzels in mixing tanks.



Note

After application for removal of residues thoroughly with Rinse off drinking water.

- ✓ Applicable at ambient temperatures
- ✓ Hard water stable
- ✓ Excellent dissolving of fat and protein



28 kg canister
290 kg barrel

calgonit SN 578

calgonit SN 578 is a liquid, high acidic product with hydrogen peroxide based on nitric acid. The product is low foaming, can be dosed by conductivity and is easily rinsed off. The high amount of hydrogen peroxide boosts the cleaning performance significantly.



Note

After use, rinse thoroughly with drinking water to remove residues.

- ✓ Surface active
- ✓ Phosphate free
- ✓ Low foaming

23 kg canister
230 kg barrel



Stand cleaning



calgonit CD-K1

calgonit CD-K1 is used as the acidic component for preparation of chlorine dioxide together with calgonit CD-K2.

- ✓ Easy to dose
- ✓ Standardized concentration
- ✓ Economical in use



19 L canister

calgonit CD-K2

calgonit CD-K2 is a solution with a standardized concentration of sodium chlorite for preparation of chlorine dioxide together with calgonit CD-K1.

- ✓ Easy to dose
- ✓ Standardized concentration
- ✓ Economical in use



1,9 L canister





B. Drinking water treatment

Drinking water treatment in an occupied barn is intended to prevent the formation of biofilms by eliminating yeasts, fungi, viruses and bacteria in the drinking water and thus providing drinking water of hygienic quality. Individual bacteria that regularly emerge from existing biofilms are immediately killed and the new attachment of bacteria in biofilms is made more difficult. Over time, biofilms shrink and the treated water for the animals has an optimal hygienic quality despite biofilm. Here we recommend our calgonit CD-K1/K2 system based on chlorine dioxide. The agent is activated directly on site before use from the two components calgonit CD-K1 (red canister, 19.1 L) and calgonit CD-K2 (blue canister, 1.9 L) by pouring the contents of the blue canister into the red one. After 30 minutes reaction time the mixture is ready for use.

Time interval	Dosage calgonit CD-K1 / CD-K2	In ml on 1m ³ Water	Equivalent to ppm chlorine dioxide
For lines which have received a stand cleaning:			
Stabling until first vaccination (approx. 7 days)	330 ppm	330 ml	1,0 ppm
Main fattening period	150 ppm	150 ml	0,45 ppm
For lines that have not been previously cleaned:			
Dirty pipes (approx. 6 weeks)	330 ppm	330 ml	1,0 ppm
Main fattening period	150 ppm	150 ml	0,45 ppm

The quantity of chlorine dioxide to be used depends on various factors and may vary upwards and downwards. The recommendation for human drinking water in clean pipes is 0.2 ppm chlorine dioxide. The amount of chlorine dioxide should therefore be checked once a week.

A large amount of biofilm consumes a lot of chlorine dioxide, so as the amount of biofilm decreases, more and more chlorine dioxide reaches the animals. In such a case the dosage quantity should be adjusted. In figures this means 1.0 ppm chlorine dioxide (330 ppm calgonit CD-K1/K2) at the dosing input and 0.0 ppm chlorine dioxide at the animal drinker in the case of very strong biofilm, on the other hand 0.45 ppm chlorine dioxide (150 ppm calgonit CD-K1/K2) at the dosing input and 0.2 ppm chlorine dioxide at the animal drinker in the case of weak contamination.

The chlorine dioxide quantity can be checked independently with simple systems. Test strips for active chlorine are a particularly simple method which is extremely imprecise in this quantity range. Here, it is moved at the lowest edge of the display, which can lead to false-positive, but also to false-negative stick results. It is not possible to differentiate methodically between 150 and 330 ppm calgonit CD-K1/K2. A more meaningful measuring method, which can also differentiate between 150 and 330 ppm calgonit CD-K1/K2, are photometer tests with sample cuvettes for active chlorine / free chlorine. The photometers required for these tests are now available at low cost and in a space-saving design that is very easy to operate. The reagents provided for this purpose produce a pink dye and work not only with active chlorine but also with chlorine dioxide. We recommend this system because of its high reliability and simple operation.

Here too, an additional mechanical pressure impulse rinsing with the calgonit DWS-Mobil can be used before the drinking water treatment.



Equipment



Proper cleaning of the piping maintains the water quality leading to an adequate water intake for the animals.

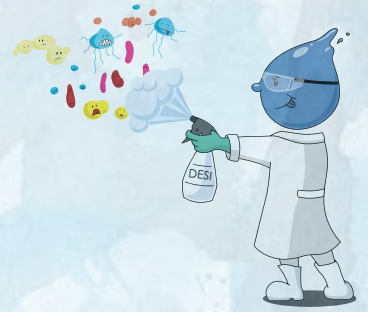
The health conditions, growth and performance of animals are mainly dependent on drinking water supply. Dirt in pipelines worsens the water quality and leads to a lower supply of water and undersupplies the water intake of the animals. If deposits have formed in the pipes, these are ideal nesting and breeding places for germs, algae and biofilms. Sometimes pipes are almost blocked, heavily contaminated therefore, whereas the water looks clean at first sight.

calgonit DWS-Mobil water-pulse-sprayer

- ✓ Reliable cleaning of the pipe network from the water meter to all consumption points
- ✓ Removes all plaque without addition of chemicals
- ✓ Removal of sedimentations such as rust, lime or other
- ✓ Eliminates sediments and deprives bacteria and other germs of breeding grounds
- ✓ Elimination of biofilm and algae
- ✓ Low stress on the pipeline network, since the process has a variably adjusted pressure setting
- ✓ Also suitable for hot water



Application of calgonit DWS-Mobil in practice



Cleaning a 400 m supply line (10 cm pipe) from the pump house to the stable.



Ejection at the beginning of the rinsing...



... after 30 minutes of rinsing



Rinse after 60 minutes.

The contamination of the water is halted for 20 hours when rinsing. the picture on the right shows what was ejected at this time.

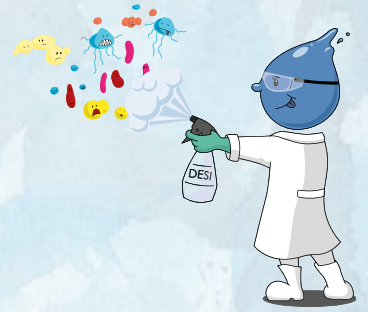


Between 20 and 25 hours, the rinse water looked like this.



After 26 hours the rinsing was stopped. The water was clear and the pipes were clean!

Advantages of the calgonit dosing systems



- ✓ Robust processing resulting in long service life of the system in the barn
- ✓ Use of high-quality materials e.g. VA for Double Dos + Heavy Dos
- ✓ Exact dosage through adapted water flow measurements even with low water consumption
- ✓ System pre-assembled in bypass
- ✓ Compliance with legal regulations through non-return valve
- ✓ Low maintenance operation
- ✓ Very easy programming of the ml exact dosage
- ✓ Double Dos = 2 media can be dosed with 1 pump



SuperDos25
Poultry



SuperDos32
Pig



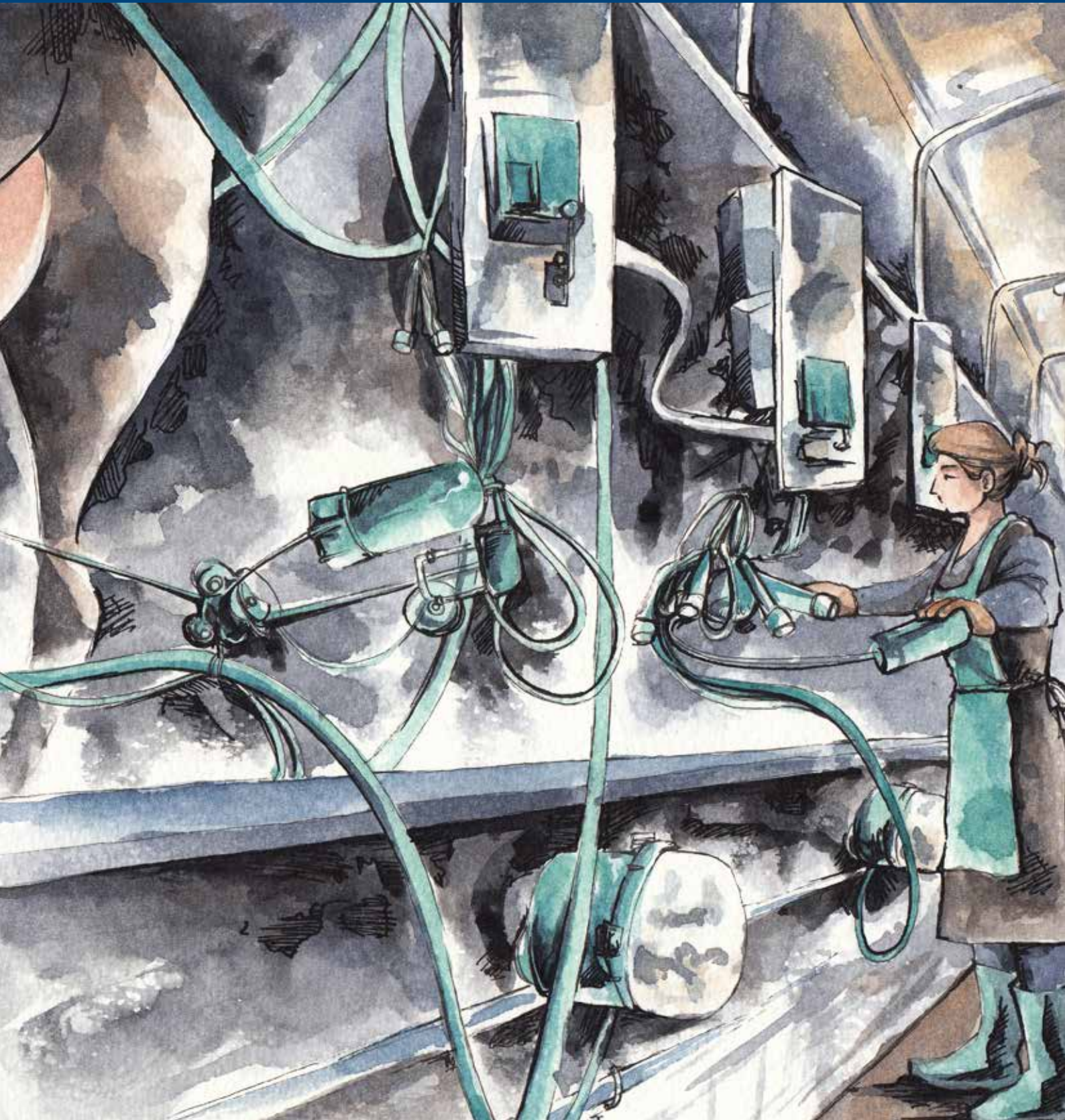
HeavyDos
Beef



DoubleDos
Poultry & Pig



Milk system cleaning



Milk system cleaning

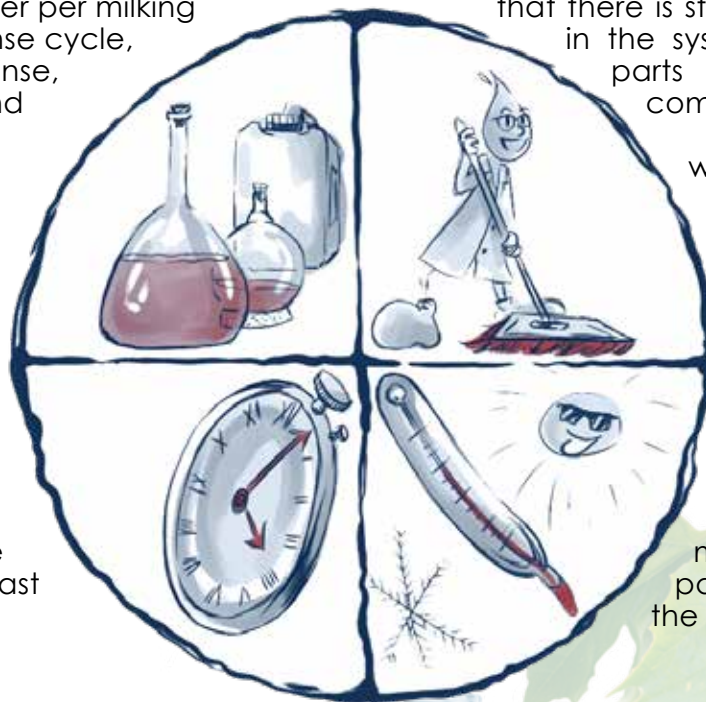
The use of suitable detergents and disinfectants for cleaning milking systems is only one component which contributes to a residue-free cleaning of milking systems maintaining raw milk quality. Using the example of circulation cleaning, we list the essential parameters of effective milking plant cleaning:

Water quantity

8 litres of water per milking cluster per rinse cycle, such as pre-rinse, main rinse and post-rinse.

Mechanical effect

When cleaning, make sure that there is strong turbulence in the system so that all parts of the system come into contact with the solution.



Cleaning duration

The main rinse must last at least 15 minutes.

Temperature

At least 60°C on milk-carrying parts and 45°C in the return flow.

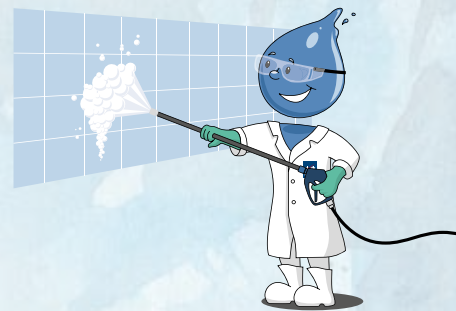
Cleaning agents

Use concentration 0.5 - 1% depending on the water volume. Use caustic solution and acid at alternating intervals, depending on water hardness.

All these parameters are easy to check and guarantee that your milking system is properly cleaned at all times.

We will be happy to give you detailed information on the cleaning of milking systems in a personal meeting.

Alkaline QAV- and chlorine-free



calgonit RFS

calgonit RFS is a high caustic alkaline intensive cleaner suitable for automatic cleaning of technical equipment in the food industry. The product is optimized to be used with all water hardnesses. calgonit RFS is for regular cleaning of milking systems and automatic milking systems and ideal for basic cleaning of milking systems as well. Calgonit RFS is the optimal cleaner for thorough removal of deposits in liquid feeding devices, pipework of drinking troughs as well as (in concentrate) to fog with special nozzels in mixing tanks.



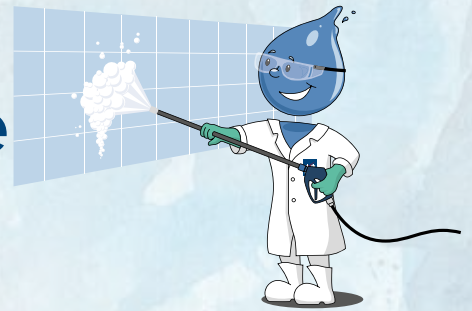
- ✓ Applicable at ambient temperatures
- ✓ Hard water stable
- ✓ Excellent dissolving of fat and protein



28 kg canister
290 kg barrel



Alkaline chlorine QAV-free



calgonit DA Premium*

calgonit DA Premium is a liquid alkaline detergent concentrate based on active chlorine for daily cleaning and disinfecting of milking machines, milking equipment, milk cooling and collecting tanks. calgonit DA Premium is low foaming and suitable for all water hardness.

- ✓ Non foaming
- ✓ Suitable for all water conditions
- ✓ Powerful disinfecting action



12 kg canister
25 kg canister
240 kg barrel

calgonit AC

calgonit AC is a caustic, liquid cleaner with active chlorine as a cleaning booster for combined cleaning of tube milking machines, milking equipment, cooling and collecting tanks. calgonit AC does not foam, contains a very effective hardness stabiliser and is preferably used for automatic circulation cleaning.

- ✓ Phosphate free
- ✓ Suitable for hard water conditions
- ✓ Non foaming

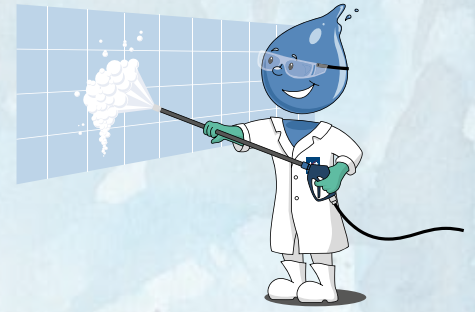


12 kg canister
25 kg canister
240 kg barrel
1000 kg IBC

*Use biocide products with care. Always read label and product information before use.



Acidic



calgonit S Premium

calgonit S is a low foaming powder product for acidic cleaning of milking machines, milking equipment, milk cooling and collecting tanks. The product very effectively removes milk stone and hard water deposits thus improving hygienic status of all milking equipment.

- ✓ Non corrosive
- ✓ Removes milk stone and water scale
- ✓ DLG approved



12 kg canister
25 kg canister
240 kg barrel

calgonit TS

calgonit TS is a low foaming liquid product for acidic cleaning of milking machines, milking equipment, milk cooling and collecting tanks. The product removes very effectively milk stone and hard water deposits thus improving hygienic status of all milking equipment. calgonit TS is preferably used for automatic circulation cleaning.

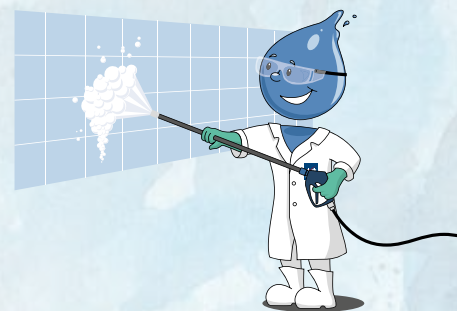
- ✓ Removes milk stone and water scale
- ✓ DLG approved
- ✓ Low foaming



25 kg canister
240 kg barrel



Milking robot cleaning

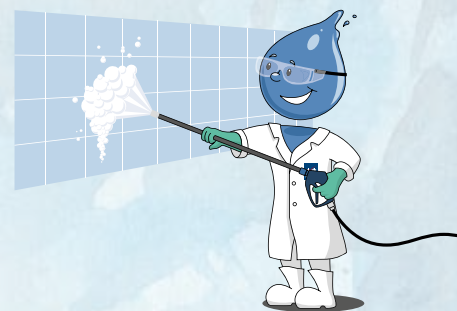


Lely	calgonit RFS	For AMS with hot water cleaning, liquid, strongly alkaline intensive cleaner
	calgonit S Premium	Cleaning and milk stone solvent for acid contrast cleaning
Lemmer	calgonit DS 625*	Weak acid disinfectant based on peracetic acid for brush disinfection
Fullwood	calgodip D 3000*	Ready-to-use udder dip and care product containing iodine
	Milchfilter	620 x 78 mm sewn neutral
DeLaval	calgonit DA Premium*	Alkaline, combined cleaning and disinfecting agent
	calgonit S Premium	Cleaning and milk stone solvent for acid contrast cleaning
GEA	calgonit DS 625*	Weak acidic disinfectant based on peracetic acid
	calgodip D 3000*	Ready-to-use udder dip and care product containing iodine
	calgonit Milchfilter	570 x 44 mm / 455 x 58 mm - sewn neutral

*Use biocide products with care. Always read label and product information before use.



Intermediate cluster disinfection



The benefits and the right procedure for the intermediate disinfection of milking clusters

In case of permanent or repeated strongly increased udder inflammations, especially in connection with *Staphylococcus aureus*, an intermediate disinfection of the clusters is recommended. This interrupts the chain of infection, as the risk of infection with udder-associated pathogens occurs mainly during milking. A professionally performed intermediate disinfection leads to a drastic reduction of the bacterial load on the liner.

Such results are achieved with a concentration of 500 - 800 ppm peracetic acid. The clusters must be rinsed with clear water beforehand. The application solution is then sprayed with a contact time of 60 seconds or applied by immersion with a contact time of 30 - 60 seconds. The application solution should be renewed after 10 milking clusters in the dipping process.

It is important that a rinse cycle follows after each application. It serves to safely remove any residues of the disinfectant solution in order to prevent damage to the teats of the cow and to comply with the legal requirements for the production of perfect food.

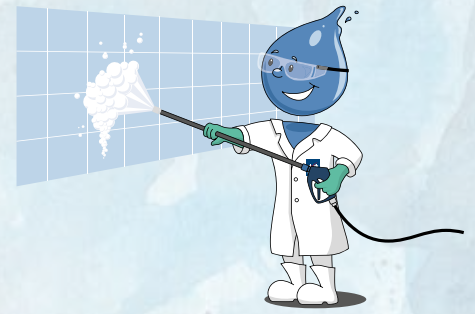
Please observe the safety instructions on the label and safety data sheet of the products.

Dosage table for intermediate cluster disinfection

Desired active substance-concentration [ppm]	Required quantity of disinfectant [ml] per 10 l of water with a peracetic acid content of	
	15%	5%
1000	66	200
800	53	160
650	43	130
500	33	100



Milking cluster interdisinfection



calgonit sterizid forte 15*

calgonit sterizid forte 15 is a liquid, acidic disinfectant based on peracetic acid. It effectively kills bacteria, spores, yeasts, fungi and viruses even at low temperatures. calgonit sterizid forte 15 does not foam. Furthermore the product can be used for intermediate disinfection of milking equipment, tube milking machines and for sanitation of animal sheds after cleaning.

- ✓ For cold aseptic filling lines
- ✓ Effective at low temperature



10 kg canister
30 kg canister
220 kg barrel
1000 kg IBC

Included in the farm equipment list for organic farming in Germany

calgonit DS 625*

calgonit DS 625 is a liquid, slightly acidic disinfectant based on hydrogen peroxide and peracetic acid. It effectively kills bacteria, yeasts and fungi even at low temperatures. calgonit DS 625 does not foam and is therefore suitable for automatic disinfection of tanks, containers, pipelines and equipment in the milk, food, soft drink and brewing industry.

- ✓ Non foaming
- ✓ Effective at low temperature
- ✓ Broad spectrum kill
- ✓ Economical in use

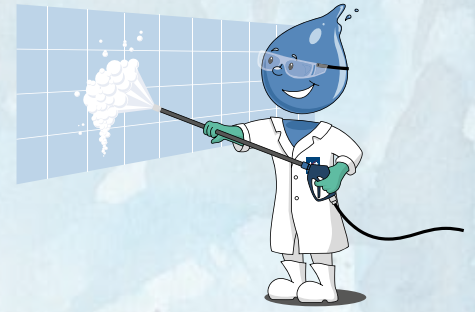


30 kg canister
220 kg barrel

*Use biocide products with care. Always read label and product information before use.



Tank cleaning



The cleaning and disinfection of milk containers is basically possible with all milking equipment cleaners, but a temperature of at least 40°C must be reached.

If the cleaning temperature of at least 40°C is not reached, deposits will form in the collection container.

So-called low-temperature cleaners are used here, which were especially designed for tank cleaning.

The products are used alternately between alkaline and acidic.

The use of these products is also recommended to reduce energy costs.



calgonit BIO Tankreiniger

calgonit BIO Tankreiniger is a liquid detergent for cleaning of milk cooling systems at low temperatures. calgonit BIO Tankreiniger removes milk fat, milk proteins and prevents redeposition. calgonit BIO Tankreiniger is due to its composition biodegradable and suitable for all water hardnesses. calgonit BIO Tankreiniger is effective from 30°C and therefore energy-saving.

- ✓ Economic in use
- ✓ Removes milk stone and proteins
- ✓ Biodegradable



24 kg canister

calgonit perfecto AF

calgonit perfecto AF is an alkaline liquid concentrate for daily combined cleaning and disinfection of milking machines, milking equipment, milk cooling and collecting tanks. calgonit perfecto AF emulsifies and eliminates reliably milk fat and milk protein. Due to its special combination of ingredients an efficient disinfection is achieved. calgonit perfecto AF is suitable for all water conditions and may be used for manual application as well as for automatic circulation cleaning.

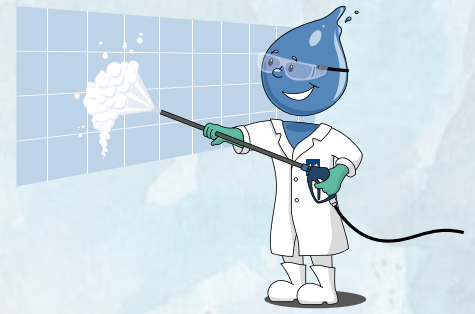
- ✓ Suitable for all water conditions
- ✓ Low foaming



25 kg canister



Tank Care



tru-lit VA Star

tru-lit VA Star cleans and maintains polished surfaces and all kinds of stainless steel. The special combination of purified white oils eliminates and prevents finger prints as well as water spots leaving a shining protective film on the treated surfaces. tru-lit VA Star is thin bodied, easy to handle and efficient.

- ✓ Forms a smooth protective film
- ✓ Leaves lustrous, spot free surfaces
- ✓ Economic in use



5 L canister
12 x 1 L carton



Udderhygiene

calvatis
calgonit
industrial



Udder hygiene out of conviction

Healthy udders are the requirement for the production of top-quality milk. Here, you calgodip udder dip and care agents are used.

The calgodip products, optionally for dipping, spraying or as a film binder, prevent bacteria from penetrating through the broadly opened milk duct and ensure a hygienic and healthy condition of the teat skin. They care and disinfect the skin of the teat after milking and thereby offer you an optimal mastitis prophylaxis.

The following substances with a biocide effect are available for you for spraying or dipping:

- ✓ Iodine
- ✓ Lactic acid
- ✓ Chlorhexidine
- ✓ Chlorine dioxide (2-component dipping agent)

When using iodine-containing dipping agents, select individually on the basis of the udder health of your herd between active agent contents of 1200 ppm, 3000 ppm and 5000 ppm. Aloe vera, glycerine, camomile and lanolin ensure an outstanding teat condition. These care substances keep the skin soft and smooth, which reduces the settling of environmental microbes.



Pre-cleaning

Udder Cleaning



calgonit ER foam

calgonit ER foam is a surfactant based detergent concentrate for wet udder cleaning prior to milking. calgonit ER foam provides excellent cleaning efficiency, is odourless and gentle to skin due to a high content of skin care agents.

- ✓ Very good cleaning properties
- ✓ High content of glycerine
- ✓ Gentle to skin
- ✓ Economical in use



6 kg canister
22 kg canister

Filtermedia

Designation	Processing	Dimensions	Quantity / Carton
calgonit MF ÖKO	Welded	250x 58 mm	4 x 250 piece
		320 x 58 mm	4 x 250 piece
		455 x 58 mm	4 x 250 piece
		500 x 58 mm	4 x 250 piece
		530 x 58 mm	4 x 250 piece
		620 x 58 mm	4 x 250 piece
	Welded neutral	455 x 58 mm	4 x 250 piece
		620 x 58 mm	4 x 250 piece
calgonit Milchfilter	Sewn neutral	320 x 58 mm	4 x 250 piece
		400 x 75 mm	4 x 250 piece
		455 x 58 mm	4 x 250 piece
		455 x 80 mm	4 x 250 piece
		530 x 58 mm	4 x 250 piece
		620 x 58 mm	4 x 250 piece
		570 x 44 mm	4 x 250 piece
		620 x 78 mm	4 x 250 piece
		610 x 95 mm	4 x 250 piece
		800 x 78 mm	4 x 250 piece
		660 x 140 mm	10 x 100 piece
		850 x 125 mm	10 x 100 piece
		920 x 95 mm	10 x 100 piece





Dipping agent

At a glance

Our udder dip and care agents

DISINFECTION	Dipping	Film creator	Sprayable	Ready-made solution
calgodip Osmo Duo	x	x		Mixture 1:1
calgodip Osmo Duo S	x		x	Mixture 1:1
calgodip D 3000	x		x	x
calgodip D 3000 Film	x	x		x
calgodip D 5000	x	x		x
calgodip Blue Kamille Film	x	x		x
calgodip Blue Kamille Spray	x		x	x

Why dip?

The period immediately after the milking process comes with a very high risk of infection. The milk duct is wide open at this time. The natural physical barrier will only protect the mammary gland again after 30 to 60 minutes. The teat tissue and teat skin were strained by the milking process.

The task of the dipping agent is now to close the milk duct, prevent the penetration of germs, kill off existing germs and care for the teats on a long-term basis.

What germs?

Cow-associated germs

The germs occur naturally in small volumes in the skin flora of the animals. Disease breaks out in the event of larger quantities of already sick animals or from excessive growth during poor immune condition. The transmission takes place mainly during the milking by staff, milking tools, milk and animal.

e.g. staphylococcus aureus, streptococcus agalactiae

Environment-associated germs

The cause can be found in the environment of the animals.

The transmission mostly takes place in the stable area as the natural habitat of this type of germ, a high germ pressure from a lack of hygiene increases the risk of infection.

e.g. escherichia coli, Klebsiella, streptococcus uberis,

Apply the dipping agent immediately after milking. By using dipping agents, new infections can be prevented. Dipping beakers and spray systems must be cleaned thoroughly before any use. Dipping agents must be stored in closed, careful and clean condition. Careful cleaning of the teats before milking reduces the infection pressure.



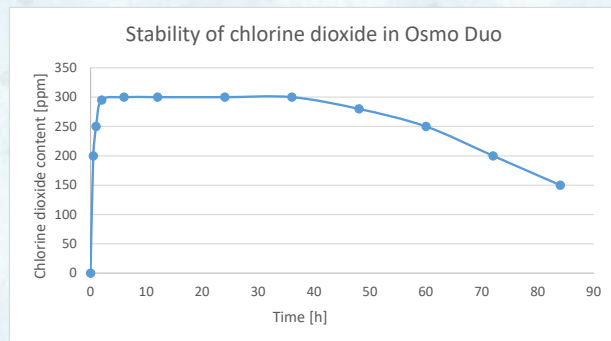
How chlorine dioxide works



Chlorine dioxide is a yellow gas with very good solubility in water and a chlorine-like pungent odour. It is used, in particular, for drinking water disinfection, as it is highly effective against all harmful germ types and, on the other hand, is very compatible with the body. With classic active chlorine, environmentally damaging chlorine compounds can occur with soiling and killed-off germ parts, which is not the case with chlorine dioxide.

The chlorine in chlorine dioxide is not transmitted, but leaves the disinfection reaction as chloride, which is safe and also found in cooking salt. The outstanding disinfection performance applies here via an oxidation response that attacks all kinds of components of harmful germs on a broad basis thanks to its chemical nature. As this process is not specialised, it is also possible to develop resistance to it. This secures the disinfection performance of chlorine dioxide long beyond the existence of mankind.

Due to the chemical properties of chlorine dioxide, it needs to be freshly made before use. For that reason, common chlorine dioxide dipping agents are made on the basis of two components, which need to be mixed with one another. The stability of the chlorine dioxide of the calgodip Osmo Duo in the fresh solution is constantly at the ideal value for optimal disinfection for the first 36 hours, but then gradually decreases.



All benefits of calgodip Osmo Duo with chlorine dioxide at a glance

- ✓ Uncompromising disinfection performance
- ✓ Can be used immediately after mixing
- ✓ Very high skin compatibility
- ✓ Stable active agent content for the first 36 hours
- ✓ Very high share of care substances for optimal skin condition
- ✓ Thanks to the blue colour, easily visible on the teat



Two-components dipping agent



calgodip Osmo Duo*

calgodip Osmo Duo is a 2-component dipping agent based on chlorine dioxide which will be released after mixing of calgodip Osmo Duo Active and calgodip Osmo Duo Base. calgodip Osmo Duo makes the teat in free of germs and closes the streak canal. Thus prevents carry over of germs and ensures udder health. calgodip Osmo Duo contains skin care components and ensures smooth teats. calgodip Osmo Duo provides rapid kill of germs and defense of environmental and cow specific germs. This reduces mastitis rate and the risk of new diseases.

- ✓ Excellent disinfecting effect
- ✓ Rapid efficacy in high germ pressure
- ✓ With care formula to prevent dehydration of the teat skin



20 kg canister
200 kg barrel



20 kg canister
200 kg barrel
1000 kg IBC

calgodip Osmo Duo S*

calgodip Osmo Duo S is a sprayable 2-component dipping agent based on chlorine dioxide which will be released after mixing of calgodip Osmo Duo Spray and calgodip Osmo Duo Active. calgodip Osmo Duo S makes the teat free of germs thus prevents carry over of germs and ensures udder health. calgodip Osmo Duo S is an all-in-one product for pre cleaning of udders and teat dipping. calgodip Osmo Duo S provides rapid kill of germs and defense of environmental and cow specific germs. This reduces mastitis rate and the risk of new diseases. calgodip Osmo Duo S contains skin care components and ensures smooth teats.

- ✓ All in one product
- ✓ Rapid efficacy in high germ pressure
- ✓ With care formula to prevent dehydration of the teat skin
- ✓ Dipping, spraying and foaming



20 kg canister
200 kg barrel



20 kg canister
200 kg barrel
1000 kg IBC

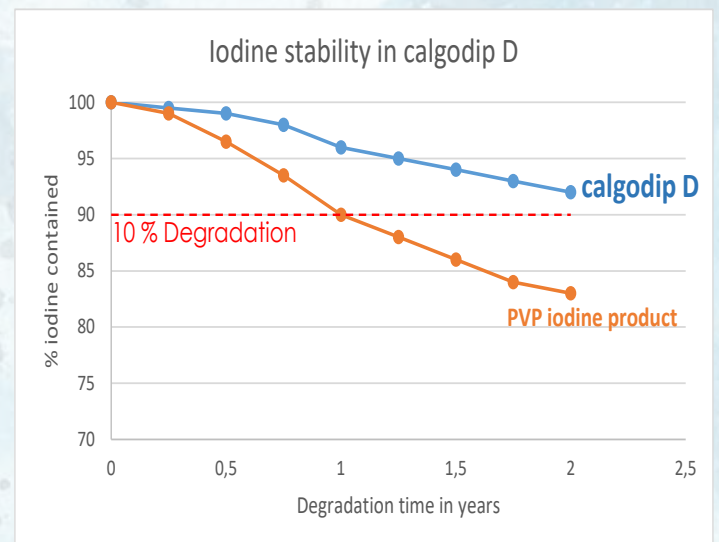


How iodine works



Iodine in its pure form consists of metallic-shining crystals, which turn into a purple gas when heated slightly. It has a characteristic own odour and outstanding disinfection performance thanks to its reactivity.

Via so-called iodophors, "iodine carriers", the iodine can be dissolved in water and kept in it in a stable form. The iodophor system in the calgodip dipping agents was developed in such a manner that only a soft connection between iodine and iodophor occurs. The iodine is kept and stabilised in the solution, but only until a reaction partner such as a harmful germ is provided. The old PVP iodine system holds the iodine far more strongly, meaning that the disinfection performance is lower thanks to the strong holding of the two partners of iodine and PVP. Interestingly, the long-term stability of the two systems has by comparison a contrary effect from the binding force. One could think that PVP iodine is more stable, but studies have shown that the strong connection to PVP also changes the properties of the iodine itself, meaning that it decays more quickly without having had a disinfection impact. The PVP-free calgodip iodophor system, by contrast, keeps the iodine as naturally as possible uninfluenced from the iodophor, meaning that the calgodip dipping agents provide their top disinfection performance for two full years.



The mode of action of iodine could not be broader. It acts both oxidatively like chlorine dioxide and substituting, i.e. transferring iodine as an element. Iodine reacts with the envelope of harmful organisms, but also partly seeps into them unchanged, so that the effect takes place from the inside out and thus all cell components are reached from inside and outside.

Iodine has no temperature independence in its effect, which means that it works at its top effect even in the winter. Even if the dipping agent were to become a little colder in some areas of the teat, it remains at its top performance. Iodine dipping agents can only be stopped by freezing fully to a lump of ice.



Dipping agent - iodine



calgodip D 3000*

calgodip D 3000 is a iodine containing, ready-to-use teat disinfectant suitable for application after milking. The product closes the teat canal and protects it against invasion of bacteria. calgodip D 3000 contains effective skin care agents which regularly used reduce chapping and provide for smooth skin and excellent udder condition. calgodip D 3000 interrupts germ transfer and ensures good udder health.

- ✓ Europe-wide authorization
- ✓ Ready to use
- ✓ Excellent adhesion



20 kg canister
200 kg barrel

calgodip D 3000 Film*

calgodip D 3000 Film is a iodine containing, ready-to-use teat disinfection suitable for application after milking. The product closes the teat canal, forms a drip free barrier film and protects it against invasion of bacteria. calgodip D 3000 Film contains effective skin care agents which regularly used reduce chapping and provide for smooth skin and excellent udder condition. calgodip D 3000 Film interrupts germ transfer and ensures good udder health.

- ✓ Contains aloe vera
- ✓ With skin care agents
- ✓ Protects and conditions
- ✓ Film forming



20 kg canister
200 kg barrel

calgodip D 5000*

calgodip D 5000 is a iodine containing, ready-to-use teat disinfection suitable for application after milking. The product closes the teat canal, forms a drip free barrier film and protects it against invasion of bacteria. calgodip D 5000 contains effective skin care agents which regularly used reduce chapping and provide for smooth skin and excellent udder condition. calgodip D 5000 interrupts germ transfer and ensures good udder health.

- ✓ Film forming
- ✓ Protects and conditions
- ✓ Europe-wide authorization



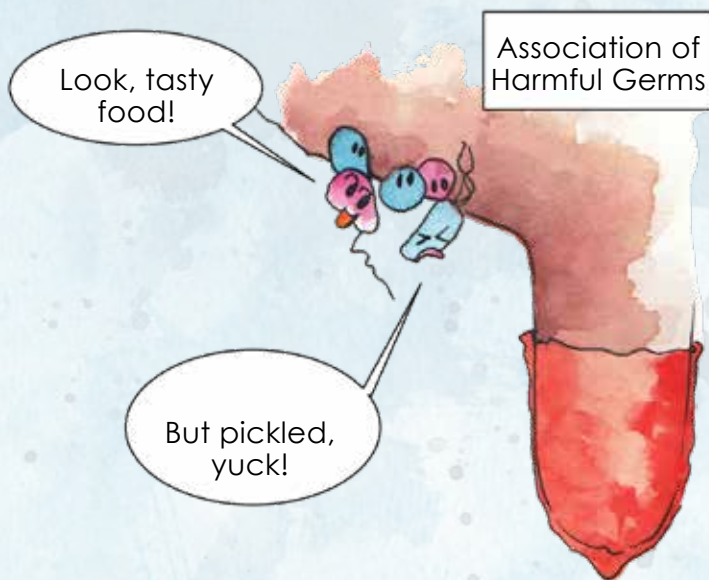
20 kg canister
200 kg barrel



The effect of lactic acid



One of the oldest known disinfectants and preservatives is lactic acid. For thousands of years, it has been used to preserve various foods and effectively keeps harmful germs out. Lactic acid is extremely well tolerated by the body because it was formed and spread by bacteria evolutionarily before the development of multicellular organisms. In evolutionary terms, we therefore had to adapt to them and that is also the reason why lactic acid is not only tolerable, but also has a positive, caring effect on the skin.



By contrast, harmful germs have still not adapted to strongly acidic environments. The lactic acid acts on them unspecifically as acid, which attacks the cell membrane and scabs or even destroys it. In some cases, lactic acid also seeps into the cells and destroys the internal proteins that are the motor of harmful germs.

In contrast to iodine, lactic acid does not increase the active ingredient volume, which is why all our lactic acid dips contain the same active ingredient content of 9600 ppm lactic acid. Here it is more important to find the balance between optimal germ killing and optimal skin compatibility. Although lactic acid is very well tolerated by the skin, it is the dose that determines the result. Too much lactic acid could produce a skin peeling effect. We were able to avoid this effectively and found an ideal balance between lactic acid volume, caring performance, care substances and disinfectant strength. This means that optimum care is provided for disinfection and the skin itself is only exposed to minimal stress. For outstanding teat conditions.



Dipping agent - Lactic acid



calgodip Blue Kamille Film*

calgodip Blue Kamille Film is a ready-to-use teat care preparation of the new generation for dipping after each milking. calgodip Blue Kamille Film forms a non dripping barrier film around the teat which protects the udder against invasion of bacteria. calgodip Blue Kamille Film contains skin protecting components and a well balanced amount of biological lactic acid, which is characterized as especially skin friendly and has simultaneously a remarkable disinfection performance. High quality care components make the skin resistant and supple. calgodip Blue Kamille Film was tested according european norm to EN 1656. The contained camomile soothes and cares the skin. The tea-tree oil has low odor acceptance by flies, thus they will not settle on the teats after milking and dipping.

- ✓ Ensures udder health and milk quality
- ✓ Gives excellent skin condition and protection
- ✓ Forms long lasting barrier film
- ✓ Iodine-free



20 kg canister
200 kg barrel
1000 kg IBC

calgodip Blue Kamille Spray*

calgodip Blue Kamille Spray is a ready-to-use teat care preparation of the new generation for dipping and spraying after each milking. calgodip Blue Kamille Spray forms a disinfecting barrier film around the teat which protects the udder against invasion of bacteria. calgodip Blue Kamille Spray contains skin protecting components and a well balanced amount of biological lactic acid, which is characterized as especially skin friendly and has simultaneously a remarkable disinfection performance. High quality care components make the skin resistant and supple. calgodip Blue Kamille Spray was tested according european norm to EN 1656. The contained camomile soothes and cares the skin. The tea-tree oil has low odor acceptance by flies, thus they will not settle on the teats after milking and dipping.

- ✓ Gives excellent skin conditions and protection
- ✓ Ensures udder health and milk quality
- ✓ Iodine-free



20 kg canister
200 kg barrel
1000 kg IBC





**Care products &
dip accessories**

Dipping accessories



calgonit dipping cup

Non-Return dip cup, prevents the return flow into the dip solution.



calgonit foam dip cup

To produce a cleaning foam for the teats.



calgonite spray dipper

For udder dip and care products that are suitable for spraying.





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