

ACIDCLEAN

ACID DESCALING AGENT

CLEANING AND DESCALING OF MILKING EQUIPMENT

MILK SCALE REMOVER

PRESENTATION

- . Clear liquid
- Colourless
- . Undiluted pH-value : No data
- . pH at 10 g/l : 2,1+/- 0,2
- . Density at 20° C : 1,22+/- 0,01 g/cm³
- . Freezing point : -25 °C

PROPERTIES

MAIN COMPONENTS

- . Orthophosphoric acid : 30 %
- . Sulfuric acid : 5 %
- . Antifoaming surfactants

ADVANTAGES

1) ACID POTENTIAL

ACIDCLEAN contains a very high rate of phosphoric acid (strengthened with sulphuric acid), any other mineral or organic acid being excluded.

Some other acids such as hydrochloric and nitric acid are, at different degrees, corrosive on stainless steel or rubber and are not recommended for manual use and material care.

It is worth noting that phosphoric acid is the most expensive of all these acids. It radically eliminates mineral deposit coming from the milk, without any milk loss (calcium lactate and calcium phosphate) as well as the calcium carbonate film left by the water after the rinsing stage.

Moreover, phosphoric acid has a high dispersing capacity. Lipid and protein globules which are taken off the surface by the surfactant, remain in the circulating solution.

2) DETERGENT

The dispersing capacity of phosphoric acid and the high deterging capacity of the surfactants contained in the formula (strengthened with a reinforcer) gives ACIDCLEAN a very strong cleaning power.

3) ANTIFOAMING

The search for a high detergent power can lead to foam formation. It is therefore particularly interesting to balance the formulation with antifoaming additives in order to keep a maximal detergent power without the foam inconveniences.

4) NON AGRESSIVE

Thanks to its formulation, ACIDCLEAN is compatible with the materials of which milking equipment is made up.

5) STABILITY

ACIDCLEAN supports unlimited storage under the temperatures and pressures encountered under our climate.

6) EASY TO RINSE

The perfect water solubility of ACIDCLEAN makes it easy to rinse. There is no need for long rinsing stages ; waterlosses are therefore avoided.

USAGE

Cleaning and descaling of all types of farm milking equipment.

- automatic : milking parlour, transfer, milking pail, storage tanks.
- manual : by dipping and brushing.
- steam boiler using acidified water.

Direction for use:

Standard pattern for use :

Do not mix with alkalis or chlorinated alkalis

It is recommended to use ACIDCLEAN after the morning milking

AUTOMATIC USE :

Milking machine with or without programmer

- 1) After the milking, rinse the milking equipment with cold drinking water.
- 2) Circulate a 0,5 % ACIDCLEAN solution (5 ml of ACIDCLEAN for 1 liter of water) at 50 - 70 °C for 5 - 8 mn.
- 3) Rinse with cold drinking water.

MANUAL USE

Brushing and dipping of milking equipment

- 1) After the milking, rinse the milking equipment with cold drinking water.
- 2) Prepare a 0,5 % ACIDCLEAN solution (5 ml of ACIDCLEAN for 1 liter of water) at 35 - 50 °C.
- 3) After brushing, leave the equipment in contact with the product for at least 5 mn.

4) Rinse with cold drinking water.

Use ACIDCLEAN alternatively with ALKACLEAN.

Frequency of use depends on water hardness - To be discussed with our technician.

BOILING WATER GENERATOR

Prepare a 10% stock solution, that is approximately 1.5 to 2L of ACIDCLEAN for 20 litres of water. This stock solution can be used:

- . either sucked by the generator with an automatic installation
- . either by pouring 1 to 1.5 litres of ACIDCLEAN into the generator shortly after the clean has started
- . the water temperature at the beginning should not be below 95°C and never below 77°C in the circuit
- . contact time is usually 7 minutes

CONTROL OF THE SOLUTION

- . Test sample : 50 ml
- . Colored Indicator : Phenolphtalein
- . Reagent : NaOH N/2
- . Reagent :
- . Titrated factor : $f = 0,14$

$$\text{Concentration in \%} = \text{burette drop} * f$$

$$\text{Concentration in g/l} = \text{burette drop} * f * 10$$

PACKAGING

Jerrycan 10l Red 12kg

Jerrycan 22l Red 25kg

Drum 200l Dark blue 240kg

Small barrel 60l Red 70kg

Drum 120l Dark blue 140kg

Container 1000l 1200kg

Drum 220l Dark blue 220kg

If the product has not been used within 12 months from its manufacturing date but the storage conditions have been complied with, an extension can be granted. In this case, contact the commercial department.

SECURITY

Refer to the Safety Data Sheets available on the Internet : <http://www.hypred.fr>

LEGISLATION

This product conforms with legislation regarding surface cleaning products allowed in contact with foodstuffs, products and beverage for human and animal consumption.