



# niroklar<sup>®</sup> FS 28

## Acidic Detergent for the food industry

### Liquid concentrate

#### Fields of application:

- Acidic cleaning of milking and milk-cooling systems, lines and milk tanks in milk-producing establishments
- Cleaning of production plants and filling systems, tanks, containers and lines using automated CIP processes and in circulation processes

#### Performance spectrum:

niroklar FS 28 is an acidic detergent based on organic acids and has the following properties:

- Reliably removes mineral deposits such as limescale and milk stone
- Free of nitric acid and phosphoric acid
- Optimum cleaning performance at 40 °C and above
- Suitable for organic production
- Material-preserving adjustment - ideally suited for silicone teat liners
- Suitable for stainless steel, aluminium, rubber and acid-resistant plastics and seals

#### Application and Dosage:

- Cleaning of milking and milk-cooling systems, lines and milk tanks: The application concentration is 0.5 - 1.0 per cent by weight depending on application, water hardness and degree of soiling at temperatures of 40 °C - 80 °C
- Cleaning by means of automated CIP processes or circulation processes: The application concentration is 0.5 - 3.0 per cent by weight depending on application, water hardness and degree of soiling at temperatures of 40 °C - 80 °C

- niroklar FS 28 must not be mixed with active chlorine-containing cleaning solutions
- Acidic and/or oxidative detergents and disinfectants must not be used for long-term use due to the risk of pitting corrosion of stainless steel. The formation of pitting corrosion is facilitated by high chloride amounts in the water, high temperatures and still solutions
- When using niroklar FS 28 the items to be washed, the cleaning system and the drain pipes must be acid-compatible

#### General notes on application:

- For professional use only.
- In order to avoid product residues, rinse surfaces with drinking water, especially those that come in contact with food, after each cleaning and disinfection measure.
- Do not mix with other products.
- Rinse out dosing system including suction hose with water before changing product.
- Only dose from the original container.
- Do not use as a concentrate – only as a working solution.
- Please observe the operating instructions given by the manufacturer of the system/device.
- The instructions given by the manufacturer of the milking and milk cooling systems are to be observed.
- The weigomatic dosing systems resp. neomatik dosing devices by Dr. Weigert enable controlled, safe and economical application. We are a specialist company in accordance with the German Water Conservation Act (Wasserhaushaltsgesetz, WHG). Suited to the individual conditions and requirements we plan, install and maintain central and distributed dosing systems.

## Determining concentration:

After adding one to two drops phenolphthalein solution, 10 ml of niroklar FS 28- solution is titrated with 0.1 N caustic soda (NaOH) until the colour changes from colourless to red.

ml of 0.1 N NaOH used x 0.18 = %  
(w/w) niroklar FS 28

## Technical data:

Appearance	clear, colourless to yellowish liquid
pH-value	approx. 2 (1 % in deionised water, 20 °C)
Density	approx. 1.2 g/cm <sup>3</sup> (20 °C)
p-value	approx. -24 (ml of 0.1 N NaOH used in titration of 400 mg of concentrate against phenolphthalein)


The product specification may contain deviating test parameters. This specification can be obtained on request.

## Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:

Organic acids

## Storage information:

Always store at a temperature between -3 °C and 30 °C. Usable for 3 years when stored as recommended. For expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.

## Hazard and precautionary statements:

For safety information see Safety Data Sheets. These are available at [www.drweigert.com](http://www.drweigert.com) under the category "Service/Downloads".

If applied according to the instructions for use the product is safe according to the appropriate guidelines for food processing.

Dispose only when container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

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