

## PERFEKTAN® ENZYME



PREVENT

MULTI-ENZYMATIC DISINFECTING CLEANER FOR THE REPROCESSING OF INSTRUMENTS AND ENDOSCOPES

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For **pre-cleaning** without fixation

High **value retention** of instruments and medical devices  
due to **neutral pH**

Disinfecting effect for suitable **personnel protection**

Synergistic performance through **multi-enzyme complex**  
with surfactants



Performance  
powered by  
enzymes!

## PERFEKTAN® ENZYME



### PRODUCT DESCRIPTION

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**PERFEKTAN ENZYME** is the intelligent disinfectant cleaner for the manual processing and reprocessing of thermostable and thermolabile medical devices. Through its high-performance multi-enzyme complex made of four enzymes and selected surfactants, **PERFEKTAN ENZYME** yields a good cleaning result in the case of organic contamination without protein fixation. The fresh scent creates a pleasant environment and through the disinfectant effect based on QACs without aldehydes and

amines, **PERFEKTAN ENZYME** offers an advantage in terms of occupational safety. The neutral pH ensures good material compatibility and value retention of the medical devices. **PERFEKTAN ENZYME** is also suitable for use in an ultrasonic bath. In addition, **PERFEKTAN ENZYME** can be used for the reprocessing of flexible endoscopes and is fully compatible with THERMOSHIELD FLEX and THERMOSHIELD DESINFECTANT.

# PERFEKTAN® ENZYME



## APPLICATIONS AND NOTES

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### Range of application

Aldehyde-free and amine-free, disinfectant cleaner for non-fixing manual pre-/cleaning of surgical instruments, rigid and flexible endoscopes, as well as endoscope accessories. The cleaning is carried out by four enzymes and surfactants, the disinfection by QACs. Suitable for use in ultrasonic baths and for disinfecting pre-cleaning in the case of automated reprocessing of medical devices.

### Application

Prepare PERFEKTAN ENZYME working solution in the desired concentration with water (max. 40 °C). Prepare solution by diluting with suitable water in accordance with national guidelines.

Cleaning in the immersion bath procedure: Optimum cleaning results are achieved with a concentration of 1 %. Can be dosed up to 3 % in case of heavy soiling.

Disinfectant cleaning in the immersion bath procedure: Place instruments and endoscopes – following prior preliminary cleaning, where necessary – (open) in the working solution and ensure that all surfaces and cavities are fully wetted. If necessary, allow the air to fully escape from the lumen and clean the instruments mechanically, if necessary, e.g. brushing. Clean endoscope channels mechanically. After the end of the contact time, thoroughly rinse the instruments with suitable water and reprocess them further.

Disinfection in the immersion bath procedure: Clean the instruments and place them (open) into the working solution. All surfaces and cavities must be wetted completely by the working solution. After the exposure time has elapsed, rinse the instruments thoroughly with suitable water, dry and continue processing.

PERFEKTAN ENZYME is suitable for use in an ultrasonic bath.

According to the EU Medical Device Regulation, users/patients are obligated to report any serious incident that has occurred in relation to the device to the manufacturer and the competent authority of the EU Member State in which the user/patient is established.

### Application notes

For cleaning in the ultrasonic bath: Do not exceed the ultrasonic exposure time according to the manufacturer's instructions or temperatures of 40 °C. Not suitable for final disinfection of semi-critical and critical medical devices. Change working solution if there is any visible contamination but at least once every working day. PERFEKTAN ENZYME must not be mixed with other process chemicals.

Ultrasonic bath procedure: PERFEKTAN ENZYME can be used to improve cleaning performance in all ultrasonic baths made from stainless steel. The freshly prepared PERFEKTAN ENZYME working solution used for cleaning must be de-gassed before first use. Avoid temperatures greater than 40 °C in the working solution, because these could result in fixation. After the contact time has elapsed, rinse the medical devices thoroughly with demineralised water.

Endoscopes: Pre-clean the endoscope immediately after use with a lint-free soaked cloth (e.g. ONE SYSTEM BASIC or ECO WIPES soaked with PERFEKTAN ENZYME. Pay attention to standing time). Thoroughly flush the endoscope channels with the working solution. Then submerge the endoscope completely in the PERFEKTAN ENZYME working solution and clean the instrument using the valid process instructions. After cleaning, rinse the endoscope thoroughly with water and then continue to process the instrument. The directions of the endoscope manufacturer must be followed.

For final disinfection of medical devices with a risk class of semi-critical A or higher, process using a virucidal disinfectant, e.g. PERFEKTAN ACTIVE or DESCOTON EXTRA. Appropriate personal protective equipment (PPE) must be worn when handling PERFEKTAN ENZYME. Before using PERFEKTAN ENZYME for the first time, clean all instruments and baths thoroughly to remove chemical residues. Instrument baths must be cleaned and disinfected at least once every working day, preferably with a disposable wipe soaked in alcohol, e.g. DESCOSEPT PUR WIPES RTU.

### Composition

100 g contains: 17,5 g N,N-didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate; 0,5 g N,N-Didecyl-N,N-dimethylammonium carbonate (3:2); Regulation (EC) No 648/2004 (Detergents Regulation): 5 - 15 % Non-ionic surfactants, Enzymes protease, amylase, lipase, cellulase; fragrances Limonene, Linalool, Geraniol

### Material compatibility

The use is not recommended for the following materials: copper, brass and polycarbonate/acrylonitril-butadiene-styrene (PC/ABS), (see page 5 – 7).

We only recommend the use under certain conditions for the following materials: polymethylmethacrylate (PMMA). For further information see pages 6-8.

### Precautionary and hazard statements

N,N-didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate, Alcohol ethoxylate C9-C11. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER/doctor. Avoid release to the environment. Dispose of contents/container to approved disposal company or local collection.

For professional use only by personnel with corresponding specialist knowledge according to national directives.

### Read label before use.

INSTRUMENTS / MANUAL REPROCESSING

PERFEKTAN®  
ENZYME



PREVENT

SPECTRUM OF EFFICACY AND CONTACT TIMES

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| SPECTRUM OF ACTIVITY AND CONTACT TIMES                  |                       |                            | 5 min | 15 min |
|---------------------------------------------------------|-----------------------|----------------------------|-------|--------|
| Application recommendations for instrument disinfection |                       |                            |       |        |
| bactericidal, yeasticidal                               | EN 14561              | dirty conditions           | 3 %   | 1 %    |
|                                                         | EN 14562              | dirty conditions           |       |        |
| active against enveloped viruses                        | EN 14476              | dirty and clean conditions | 0,5 % |        |
|                                                         | EN 17111              | dirty and clean conditions | 0,5 % |        |
| Additional test results                                 |                       |                            |       |        |
| bactericidal <sup>1</sup> , yeasticidal <sup>1</sup>    | VAH / EN <sup>2</sup> | dirty conditions           |       | 1 %    |
| bactericidal                                            | EN 13727              | dirty conditions           | 1 %   | 1 %    |
| yeasticidal (C. albicans)                               | EN 13624              | dirty conditions           | 1 %   | 0,1 %  |

1 – including phase 2 step 1 and phase 2 step 2 tests (quantitative suspension tests and quantitative carrier tests)

2 – EN 13624, EN 13727, EN 14561, EN 14562

# PERFEKTAN® ENZYME



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## MATERIAL COMPATIBILITY

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| MATERIAL<br>METALS  | not recommended                                   | limited recommended | recommended                                                                                                                                                                                                          | APPLICATION<br>PRODUCT EXAMPLE |
|---------------------|---------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Stainless steel V2A |                                                   |                     | <ul style="list-style-type: none"><li>• Rigid endoscopes</li><li>• Needle holder</li><li>• Clamps</li><li>• Scissors</li><li>• Scalpels</li><li>• Forceps</li><li>• Laryngoscope blades</li><li>• Speculum</li></ul> |                                |
| Aluminum            |                                                   |                     | <ul style="list-style-type: none"><li>•</li></ul>                                                                                                                                                                    |                                |
| Copper              | <ul style="list-style-type: none"><li>•</li></ul> |                     |                                                                                                                                                                                                                      |                                |
| Brass               | <ul style="list-style-type: none"><li>•</li></ul> |                     |                                                                                                                                                                                                                      |                                |

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## MATERIAL COMPATIBILITY

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| MATERIAL<br>PLASTICS: ELASTOMERS                 |                 |                     |             | APPLICATION<br>PRODUCT EXAMPLE |
|--------------------------------------------------|-----------------|---------------------|-------------|--------------------------------|
|                                                  | not recommended | limited recommended | recommended |                                |
| PUR (polyurethane)                               |                 |                     | •           | Long-term catheters            |
| Silicones                                        |                 |                     | •           | Respiratory masks              |
| CR (neoprene)                                    |                 |                     | •           | Seals                          |
| EPDM (ethylene propylene diene (monomer) rubber) |                 |                     | •           | Flexible endoscopes            |

# PERFEKTAN® ENZYME



## MATERIAL COMPATIBILITY

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| MATERIAL<br>PLASTICS: THERMOPLASTICS                  | not recommended | limited recommended | recommended | APPLICATION<br>PRODUCT EXAMPLE               |
|-------------------------------------------------------|-----------------|---------------------|-------------|----------------------------------------------|
| PA (polyamide)                                        |                 |                     | •           | Tubes                                        |
| PE-HD (polyethylene-high density)                     |                 |                     | •           | Instrument trays                             |
| PC (polycarbonate e.g. Makrolon)                      |                 |                     | •           | Hollow fiber dialyzer housings               |
|                                                       |                 |                     | •           | Inhalers                                     |
|                                                       |                 |                     | •           | Cardiotomy reservoirs                        |
| ABS (acrylonitril-butadiene-styrene)                  |                 |                     | •           | Tracheal tubes                               |
| PP (polypropylene)                                    |                 |                     | •           | Test implants, caddies for surg. instruments |
| PMMA (polymethylmethacrylate)                         |                 | •                   |             | Acrylic glass                                |
| PC/ABS (polycarbonate/acrylonitril-butadiene-styrene) | •               |                     |             | Ultrasound probes                            |

## INSTRUMENTS / MANUAL REPROCESSING

# PERFEKTAN® ENZYME



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## PURCHASING INFORMATION

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| Product          | Single unit      | Delivery unit | Content | REF         |
|------------------|------------------|---------------|---------|-------------|
| PERFEKTAN ENZYME | Dispenser bottle | 12            | 1 L     | 00-128-010E |
|                  | Bottle           | 6             | 2 L     | 00-128-020E |
|                  | Canister         | 3             | 5 L     | 00-128-050E |

National information may differ. For further information, please contact our subsidiary or your local dealer.

The availability of the products and container sizes depend on a completed national registration.



CE 0123

## CERTIFICATIONS



For an overview of our current certifications, scan the QR code to visit:

<https://www.schumacher-online.com/en/cert>

Dr. Schumacher is certified according to DIN EN 13485, DIN EN ISO 9001, DIN EN ISO 14001, BS OHSAS 18001, has a validated environment management system according to EMAS and is a member of IHO, VCI, BAH, DGSV and of the DGKH.

INSTRUMENTS / MANUAL REPROCESSING

PERFEKTAN®  
ENZYME



PREVENT

OVERVIEW SINGLE UNITS

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PERFEKTAN ENZYME 1L



PERFEKTAN ENZYME 2L



PERFEKTAN ENZYME 5L



RECOMMENDED PRODUCTS FOR FURTHER PROCESSING:



PERFEKTAN ACTIVE



THERMOSHIELD FLEX



THERMOSHIELD DESINFEKTANT