

# Instructions for use

## deconex® TWIN PH10 TWIN ZYME-z

### Mildly alkaline 2-component cleaning system

For use in WD for reprocessing of all medical devices including flexible endoscopes and dental instruments



### Scope of application

deconex® TWIN PH10 / TWIN ZYME-z is a highly effective, mildly alkaline 2-component cleaning system which is extremely gentle on materials, and which is used for uncompromising cleaning of all medical instruments and utensils including MiS and dental instruments, anesthetic and respiratory equipment, ward materials made of rubber, latex or plastics, and rigid and flexible endoscopes in washer-disinfectors (WD and E-WD).

### Properties

deconex® TWIN PH10 / TWIN ZYME-z represents a unique dual cleaning concept consisting of a mildly alkaline component (deconex® TWIN PH10) and a multi-enzymatic component (deconex® TWIN ZYME-z), which makes it possible to use particularly effective ingredients, which would interfere with each other if combined in a single product and reduce effectiveness.

In the 2-component cleaning system important components, such as enzymes and hardness bonding complexing agents, remain separated until the moment when they are diluted and introduced into the washer disinfector. This increases the stability of the various components and also enables them to work in synergy.

As a result the 2-component cleaning system, deconex® TWIN PH10 / TWIN ZYME-z, is superior to every traditional mild alkaline detergent both in terms of material compatibility and cleaning performance. It is highly efficient at removing blood, residual tissue, proteins, fats, carbohydrates, mucous, biofilm, stool and other contaminants from medical instruments made from metal, plastic and glass, including various complex instruments, and rigid and flexible endoscopes and dental instruments.

When using DI or RO water, the deconex® TWIN PH10 / TWIN ZYME-z system has a pH value > 10 in the washing solution, which means that it is in accordance with the vCJD recommendations from RKI and BfArM for «automated (validated) cleaning / disinfection in an automated decontamination machine in an alkaline environment (pH > 10) with a 10-minute cleaning time and an elevated process temperature that does not fix proteins».

deconex® TWIN PH10 / TWIN ZYME-z contains no EDTA or NTA and it is also free of allergenic additives such as scent and colourants. deconex® TWIN PH10 / TWIN ZYME-z is low-foaming and offers good rinsability.

Special features of deconex® TWIN PH10 / TWIN ZYME-z:

- excellent cleaning performance
- low dosage
- high material compatibility
- effective against biofilm
- pH > 10
- does not require neutralisation
- versatile
- low-foaming
- no discolouration
- good rinsability
- EDTA-free
- NTA-free
- free of scent
- free of colourants
- biodegradable

# deconex® TWIN PH10 TWIN ZYME-z

## Application and dosage

The optimal dosage depends largely on the water quality and other process and WD parameters.

	soft water <sup>1)</sup>	medium-hard water <sup>1)</sup>	hard water <sup>2)</sup>	temperature
deconex® TWIN PH10	2-3 mL/L	3-4 mL/L	4-5 mL/L	55 °C (WD)
+	+	+	+	
deconex® TWIN ZYME-z	1 mL/L	1.5 mL/L	2 mL/L	55 °C (WD)

<sup>1)</sup> and normal level of soil

<sup>2)</sup> and considerable or stubborn soil

## Recommended process

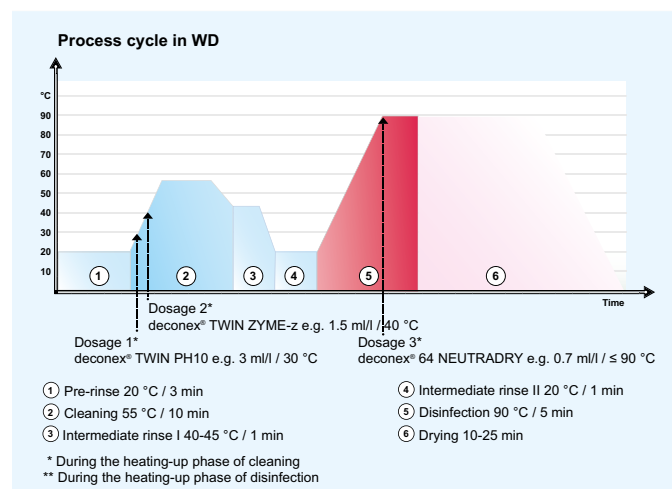
The recommended dosing temperature for washer-disinfectors is 30 °C for deconex® TWIN PH10 and 40 °C for deconex® TWIN ZYME-z. The optimal cleaning time at a cleaning temperature of 55 °C is 10 min.

## Typical WD process

A typical cleaning and disinfection program using deconex® TWIN PH10 / TWIN ZYME-z is shown below:

1. Pre-rinse: with DI- / RO-water, germ-free, 3 min
2. Cleaning: with DI- / RO-water  
Dose deconex® TWIN PH10 at 30 °C  
Dose deconex® TWIN ZYME at 40 °C  
Cleaning at 55 °C for 10 min
3. Intermediate rinse I: with warm (40-45 °C) tap water, 1 min
4. Intermediate rinse II: with cold DI- / RO-water, 1 min
5. Thermal disinfection: with DI- / RO-water,,  
e.g. 5 min at 90 °C, if needed dosage of deconex® 64 NEUTRADRY as drying aid at 90 °C
6. Drying: 10-25 min

## WD process diagram



## Storage

Store the product at temperatures between 5 and 25 °C.

deconex® TWIN ZYME-z is frost-sensitive. Avoid whenever possible transportation of this product during the cold periods. If transport during such periods is inevitable, this product must be shipped using temperature controlled lorry / sea container above 5° Celsius, or use protection hoods for short-time transports not longer than 10 hours with transport temperatures not falling below minus 5°C.

## Safety information

Please refer to deconex® TWIN PH10 and deconex® TWIN ZYME-z safety data sheets for information about industrial safety and proper disposal.

Distributor / importer:

Manufacturer:

**Borer Chemie AG**

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advanced cleaning solutions

# Product data sheet

## deconex® TWIN PH10 TWIN ZYME-z

### Mildly alkaline 2-component cleaning system

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### Ingredients

#### deconex® TWIN PH10

Alkali dispenser  
Complexing agent  
Corrosion inhibitor

#### deconex® TWIN ZYME-z

Surfactant compounds  
Enzymes (protease, amylase, lipase, cellulase)  
Corrosion inhibitor  
Preservative

### Material compatibility

deconex® TWIN PH10 / TWIN ZYME-z offers outstanding material compatibility.

Suitable for:

Stainless steel, aluminum, anodised aluminum, titanium, copper, brass, zinc, tin, chrome-plated materials, plastics, elastomers including polyurethane, silicon, Teflon, rubber, latex, glass and ceramic materials. No known material incompatibility.

The user should conduct appropriate compatibility tests for materials not mentioned here or contact Borer Chemie AG.

Concentrate:

Please request the separate information sheet for compatibility with transport and peristaltic hoses.

### Expert reports

The effectiveness of deconex® TWIN PH10 / TWIN ZYME-z against pseudomonas aeruginosa biofilms has been investigated. Expert reports are available upon request.

### CE marking

deconex® TWIN PH10 and deconex® TWIN ZYME-z satisfy the requirements for medical devices in accordance with the regulation (EU) 2017/745.

# deconex® TWIN PH10

## TWIN ZYME-z

### Physicochemical data

#### deconex® TWIN PH10

pH value	1 % solution in demineralised (DI) water	approx. 11.0
Density	concentrate	1.25 g/mL
Appearance	concentrate	clear, colorless to slightly yellow

#### deconex® TWIN ZYME-z

pH value	1 % solution in demineralised (DI) water	approx. 7.8
Density	concentrate	1.06 g/mL
Appearance	concentrate	clear, yellow to slightly brown

### Packaging

The containers, seals and labels are made of recyclable polyethylene.

#### Container sizes

##### deconex® TWIN PH10

Container type	Content	Item number
Bottle	1 L	513910.00-F10W
Canister low	5 L	513910.00-KK5W
Canister	10 L	513910.00-K10W
Canister	25 L	513910.00-K25W
220 L barrel	200 L	513910.00-B220
Drumtainer	200 L	513905.00-D220
IBC 640 L	580 L	513910.00-IBC2
IBC 1000 L	920 L	513910.00-IBC1

##### deconex® TWIN ZYME-z

Container type	Content	Item number
Canister low	5 L	519410.00-KK5W
Canister	10 L	519410.00-K10W
Canister	25 L	519410.00-K25W

### Additional information

Before using the product please read the instructions for use and the relevant safety data sheet.

Benefit from our know-how! Please contact us for further information regarding your specific application.

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