Instructions for use

deconex®
TWIN PH10
TWIN ZYME

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 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 represents a unique dual cleaning concept consisting of a mildly alkaline component (deconex® TWIN PH10) and a multi-enzymatic component (deconex® TWIN ZYME), 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, 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 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 contains no EDTA or NTA and it is also free of allergenic additives such as scent and colourants.

Special features of deconex® TWIN PH10 / TWIN ZYME:

- 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

borer
advanced cleaning solutions

DB deconex TWIN PH10 / TWIN ZYME BC-CH 11 2025-07-24 EN

deconex® TWIN PH10
TWIN ZYME

Application and dosage

Recommended dose

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

	soft water [1]	medium-hard water [1]	hard water [2]	Temperature
deconex® TWIN PH10	2-3 mL/L	3-4 mL/L	4-5 mL/L	55 °C (WD)
+	+	+	+	
deconex® TWIN ZYME	1 mL/L	1.5 mL/L	2 mL/L	55 °C (WD)

[1] and normal level of soil [2] and considerable or stubborn soil

Recommended process

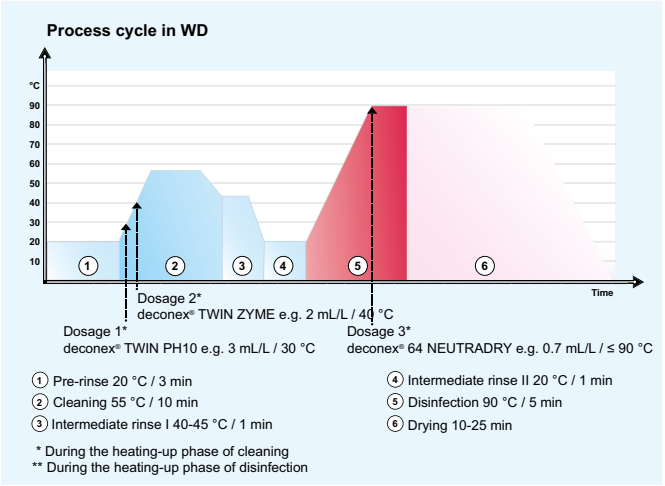
The recommended dosing temperature for washer-disinfectors is 30 °C for deconex® TWIN PH10 and 40 °C for deconex® TWIN ZYME. The optimal cleaning time at a cleaning temperature of 55 °C is 10 min.

Typical WD process

A typical cleaning and disinfection program using deconex® TWIN PH10 / TWIN ZYME 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 and transport

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

This medical device 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 safety data sheets for information about industrial safety and proper disposal.

Distributor / importer:

Manufacturer:
Borer Chemie AG
Gewerbestrasse 13, 4528 Zuchwil / Switzerland
Tel +41 32 686 56 00 Fax +41 32 686 56 90
office@borer.ch, www.borer.swiss

CE MD

borer
advanced cleaning solutions

DB deconex TWIN PH10 / TWIN ZYME BC-CH 1.1 2025-07-24 EN

Product data sheet

deconex®
TWIN PH10
TWIN ZYME

Mildly alkaline 2-component cleaning system

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

Ingredients

deconex® TWIN PH10

Alkali dispenser
Complexing agent
Corrosion inhibitor

deconex® TWIN ZYME

Surfactant compounds
Enzymes (protease, amylase)
Stabilisers
Corrosion inhibitor
Preservative

Material compatibility

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

CE marking

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

Chemical-physical 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

deconex® TWIN ZYME

pH value	1 % solution in demineralised (DI) water	approx. 8.3
Density	concentrate	1.03 g/mL
Appearance	concentrate	clear, yellow to brown

borer
advanced cleaning solutions

DB deconex TWIN PH10 / TWIN ZYME BC-CH 1.1 2025-07-24 EN

deconex® TWIN PH10
TWIN ZYME

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

Container type	Content	Item number
Canister	5 L	510610.00-K05W
Canister low	5 L	510605.00-KK5W
Canister	10 L	510605.00-K10W
Canister	25 L	510605.00-K25W
220 L barrel	200 L	510605.00-B220
Drumtainer	200 L	510600.00-D220

Additional information

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

If a serious incident occurs with this product, it must be reported to the manufacturer and the responsible authority.

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

Distributor / importer:

Manufacturer:
Borer Chemie AG
Gewerbestrasse 13, 4528 Zuchwil / Switzerland
Tel +41 32 686 56 00 Fax +41 32 686 56 90
office@borer.ch, www.borer.swiss

CE MD

borer
advanced cleaning solutions

DB deconex TWIN PH10 / TWIN ZYME BC-CH 1.1 2025-07-24 EN