Instructions for use

deconex®
TWIN BASIC
TWIN ZYME

Neutral enzymatic 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 BASIC / TWIN ZYME is a highly effective, neutral enyzmatic 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, rigid and flexible endoscopes in washer-disinfectors (WD and E-WD).

Properties

deconex® TWIN BASIC / TWIN ZYME represents a unique dual cleaning concept consisting of a neutral cleaning component (deconex® TWIN BASIC) and a multi-enzymatic cleaning 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 BASIC / TWIN ZYME, is superior to every traditional neutral, neutral-enzymatic or mild alkaline 1-component detergents 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. deconex® TWIN BASIC / TWIN ZYME is compatible with hard water. When using tap water there is a pH value of 7 in the washing solution.

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

Special features of deconex® deconex® TWIN BASIC / TWIN ZYME:

- excellent cleaning performance
- low dosage
- high material compatibility
- contributes to biofilm removal
- pH neutral
- versatile
- low-foaming
- no discolouration
- good rinsability
- No neutralisation necessary
- EDTA-free
- NTA-free
- free of scent
- free of colourants
- biodegradable

borer
advanced cleaning solutions

DB deconex TWIN BASIC / TWIN ZYME BC-CH 2.1 2025-07-23 EN

deconex® TWIN BASIC 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 BASIC	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 is 30 °C for deconex® TWIN BASIC and 40 °C for deconex® TWIN ZYME. The optimal cleaning time at a cleaning temperature of 55 °C is 5-10 min.

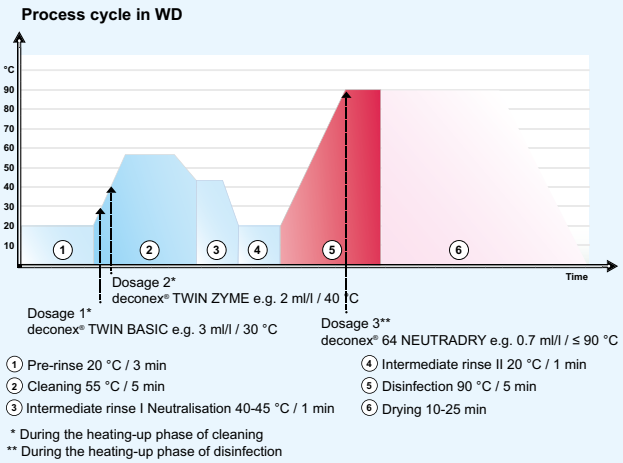
Typical WD-process

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

1. Pre-rinse: with cold tap water, 3 min
2. Cleaning: with tap water or, where applicable, with DI/RO water
   Dose deconex® TWIN BASIC at 30 °C
   Dose deconex® TWIN ZYME at 40 °C
   Cleaning at 55 °C for 5 min*
3. Intermediate rinse I: with warm (40-45 °C) tap water, 1 min
4. Intermediate rinse II: with 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

* If necessary, longer cleaning times result in further improvement on cleaning performance.

WD process diagram



Storage and transport

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

deconex® TWIN BASIC and deconex® TWIN ZYME are 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 BASIC and deconex® TWIN ZYME safety data sheets for information on 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 BASIC / TWIN ZYME BC-CH 2.1 2025-07-23 EN

Product data sheet

deconex®
TWIN BASIC
TWIN ZYME

Neutral enzymatic 2-component cleaning system

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

Ingredients

deconex® TWIN BASIC

Alkali dispenser
Complexing agent
Corrosion inhibitor

deconex® TWIN ZYME

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

Material compatibility

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

CE marking

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

Chemical-physical data

deconex® TWIN BASIC

pH value	1 % solution with demineralised (DI) water	approx. 8.8
Density	concentrate	1.25 g/mL
Appearance	concentrate	clear, colourless to yellow

deconex® TWIN ZYME

pH value	1 % solution with 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 BASIC / TWIN ZYME BC-CH 2.1 2025-07-23 EN

deconex® TWIN BASIC TWIN ZYME

Packaging

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

Container sizes

deconex® TWIN BASIC

Container type	Content	Item number
Canister	5 L	516325.00-K05W
Canister low	5 L	516325.00-KK5W
Canister	10 L	516325.00-K10W
Canister	25 L	516325.00-K25W
220 L barrel	200 L	516325.00-B220
Drumtainer	200 L	516300.00-D220

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 products 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 BASIC / TWIN ZYME BC-CH 2.1 2025-07-23 EN