

SONOREX
High-power ultrasound
for dental practice
Simultaneous disinfection and
cleaning of dental instruments



SONOREX
High-power ultrasound
for dental laboratoy



BANDELIN

60 years of experience in ultrasound

Frequently asked questions ultrasound application

High-power ultrasound for dental practice and dental laboratory.

Ultrasonic baths for the disinfection and cleaning of dental instruments as well as special applications. Application recommendations for use see page 11.



Fast cleaning results with ultrasound

The contamination is detached from the instruments after a few seconds.



0 seconds

3 seconds

5 seconds

8 seconds

10 seconds

Illustrations:
Dental forceps with blood residues sonicated in an ultrasonic bath SONOREX DIGITEC DT 102 H with STAMMOPUR DR 8.

Advantages of ultrasonic cleaning

- Fast instrument circulation
- Disinfection time is reduced to 5 minutes
- Gentle intensive cleaning
- Instruments are getting in touch with the disinfection solution only for a short time - no risk of corrosion
- Economical use of resources as water, chemicals and electricity
- Rapid cleaning of places difficult to reach such as cavities, holes etc. without provoking mechanical damage

How to select the proper ultrasonic bath

- Size and number of objects to be cleaned determine the size of the ultrasonic bath.
- When selecting the unit the dimensions of the accessories, e.g. baskets have to be considered.
- To avoid overcharging, it is recommended to choose the next larger unit.
- This also allows supplementary applicatons at a later stage.

When is a heater recommended

Ultrasonic baths without heater:

- For disinfection and simultaneous cleaning after dry deposit.
- Disinfecting solutions may not be warmed up as the protein starts to coagulate at a temperature of 40 °C (104 °F).

Ultrasonic baths with heater:

- For cleaning after wet deposit or for basic cleaning.
- Contaminations like fats and waxes are removed faster.

What kind of accessories should be used

- Parts to be cleaned must not be placed on the tank bottom.
- Instruments are not to be stapled and baskets are not to be overloaded.
- Instruments like forceps and scissors must be opened completely or detached, if necessary.
- Instruments must be covered completely with cleaning liquid.
- Air has to escape from hollows and hoses.

Recommended agents

- The disinfecting and cleaning agents STAMMOPUR have been especially developed for the application in ultrasonic baths.
- Microbiological expertises are available for the time reduction of the disinfection process.
- Flammable liquids like alcohol or aggressive cleaning liquids like acids and saline solutions may not be used.
- Water without any appropriate additives does neither disinfect nor clean.

SONOREX Ultrasonic baths • Selection criteria

Digital high-power ultrasonic baths with DEGAS function



DT 102 H

Analogous high-power ultrasonic baths easy to operate



RK 102 H



SONOREX DIGITEC DT-range		SONOREX SUPER RK-range
0,9 – 13,5	Tank volume (litres)	0,9 – 13,5
pushbuttons	Operating elements	turning knobs
1–30, continuous operation ∞	Time setting (min)	1–15, continuous operation ∞
after 12 hours	Safety shut-down	no
optional, version „H“	Heating	optional, version „H“
20–80 °C	Heating, thermostatically adjustable	30–80 °C RK 31 H: 65 °C fixed
yes	Excess temperature signal	no
yes, optionally activatable	Protection against delay in boiling	no
±3,5 K	Setting accuracy of bath temperature	±5 K
AISI 304	tank, made of stainless steel	AISI 304
yes	Filling mark for safe dosage	yes
yes, from DT 102 H	One-piece outlet	yes, from RK 102 H
protected against spray	Liquid protection	drip-proof
IP 33	Degree of protection	IP 32
35	Ultrasonic frequency (kHz)	35
yes	SWEEP	yes
yes	PZT-transducers	yes
yes	Degas	no
yes	Mains supply 230 V~, 50/60 Hz or	yes
yes	Mains supply 115 V~, 50/60 Hz	yes
1 program	Data memory	no
yes	CE marked according to MDD	yes
2	Warranty period (years)	2
2, DT 102 H = 3	Warranty period (years)	2, RK 102 H = 3

SONOREX DIGITEC Ultrasonic baths

SONOREX DIGITEC DT 102 H – most powerful 3-litre unit

- 50 % more power
- hard chromium plated oscilling tank
- 3 years long-term warranty

Hygienic

The flat front allows optimal disinfection and cleaning of the surface – no space for hidden germ accumulation.

Easy to clean splash-proof stainless steel housing

ON- / OFF function

Strong cleaning power by PZT transducers

Temperature Display
Excess temperature signal



Filling mark
for safe dosage

Hard chromium plated oscilling tank

Outlet ball valve
one-piece drain, welded

ON- / OFF Ultrasound
DEGAS function:
button pressed for 3 sec

Fixed programming
Save last setting time

SONOREX DIGITEC DT 102 H

with heating

Code No. 3235

Technical information

Internal tank dimensions:

240 × 140 × 100 mm (l × w × d)

Material:

stainless steel AISI 304, hard chromium plated

Capacity:

3,0 litres

Ultrasonic peak output:

480 W

HF output:

120 W_{eff}

Heating:

140 W

External dimensions:

260 × 160 × 250 mm (l × w × h)

Features:

outlet with ball valve G ¼, handles

For cleaning of rotating instruments and dentures

SONOREX DIGITEC DT 31 H

with heating
Code No.3220

SONOREX DIGITEC DT 31

without heating
Code No. 3200

Technical information

Internal tank dimensions:	190 × 85 × 60 mm (l × w × d)
Capacity:	0,9 litres
Ultrasonic peak output:	160 W
HF output:	40 W _{eff}
Heating:	DT 31 H: 70 W
External dimensions:	205 × 100 × 170 mm (l × w × h)



DT 31 H

For cleaning of small instruments

SONOREX DIGITEC DT 100 H

with heating
Code No. 3230

SONOREX DIGITEC DT 100

without heating
Code No. 3210

Technical information

Internal tank dimensions:	240 × 140 × 100 mm (l × w × d)
Capacity:	3,0 litres
Ultrasonic peak output:	320 W
HF output:	80 W _{eff}
Heating:	DT 100 H: 140 W
External dimensions:	260 × 160 × 250 mm (l × w × h)



DT 100 H

For orthodontics

SONOREX DIGITEC DT 255 H

with heating
Code No. 3240

SONOREX DIGITEC DT 255

without heating
Code No. 3215

Technical information

Internal tank dimensions:	300 × 150 × 150 mm (l × w × d)
Capacity:	5,5 litres
Ultrasonic peak output:	640 W
HF output:	160 W _{eff}
Heating:	DT 255 H: 280 W
External dimensions:	325 × 175 × 295 mm l × w × h)
Features:	outlet with ball valve G ¼, handles



DT 255 H

SONOREX SUPER Ultrasonic baths

SONOREX SUPER RK 102 H – most powerful 3-litre unit

- 50 % more power
- hard chromium plated oscilling tank
- 3 years long-term warranty



SONOREX SUPER RK 102 H

with heating

Code No. 303

Technical information

Internal tank dimensions:

240 × 140 × 100 mm (l × w × d)

Material:

stainless steel AISI 304, hard chromium plated

Capacity:

3,0 litres

Ultrasonic peak output:

480 W

HF output:

120 W_{eff}

Heating:

140 W

External dimensions:

260 × 160 × 250 mm (l × w × h)

Features:

outlet with ball valve G ¼, handles

For cleaning of rotating instruments and dentures

SONOREX SUPER RK 31 H

with heating, 65 °C, fixed

Code No. 044

SONOREX SUPER RK 31

without heating

Code No. 329

Technical information

Internal tank dimensions:	190 × 85 × 60 mm (l × w × d)
Capacity:	0,9 litres
Ultrasonic peak output:	160 W
HF output:	40 W
Heating:	RK 31 H: 70 W
External dimensions:	205 × 100 × 170 mm (l × w × h)



RK 31 H

For cleaning of small instruments

SONOREX SUPER RK 100 H

with heating

Code No. 312

SONOREX SUPER RK 100

without heating

Code No. 301

Technical information

Internal tank dimensions:	240 × 140 × 100 mm (l × w × d)
Capacity:	3,0 litres
Ultrasonic peak output:	320 W
HF output:	80 W
Heating:	RK 100 H: 140 W
External dimensions:	260 × 160 × 250 mm (l × w × h)



RK 100 H

For orthodontics

SONOREX SUPER RK 255 H

with heating

Code No. 316

SONOREX SUPER RK 255

without heating

Code No. 3066

Technical information

Internal tank dimensions:	300 × 150 × 150 mm (l × w × d)
Capacity:	5,5 litres
Ultrasonic peak output:	640 W
HF output:	160 W
Heating:	RK 255 H: 280 W
External dimensions:	325 × 175 × 295 mm (l × w × h)
Features:	outlet with ball valve G 1/4, handles



RK 255 H

Dental instruments in cassettes

Ultrasonic cleaning of dental instruments in cassettes with SONOREX SUPER RK 514 H or SONOREX DIGITEC DT 514 H



KAH 14 with 2 cassettes



SONOREX SUPER RK 514 H
with cassette holder KAH 14 and loaded cassettes

Various applications

- 1 Ultrasonic cleaning of cassettes loaded with instruments in the cassette holder KAH 14 (305 × 208 × 52 mm) and using TICKOMED 1
 - up to 2 × 1/1 DIN cassettes, for surgery
 - up to 4 × 1/2 DIN cassettes, for prophylaxis
 - up to 8 × 1/4 DIN cassettes, for diagnostics and prophylaxis
- 2 Simultaneous disinfection and cleaning of instruments placed in the insert basket K 14 with STAMMOPUR DR 8
- 3 Disinfection and cleaning of instruments in 2 insert baskets K 5 C with STAMMOPUR DR 8 or just cleaning in TICKOMED 1 or STAMMOPUR RD 5
- 4 Simultaneous disinfection and cleaning of burs and other small instruments in one operation:
With basket K 5 C and positioning lid DE 255 to fix 2 inset beakers SD 06.
 - disinfection and cleaning of contaminated instruments placed in small basket K 5 C with STAMMOPUR DR 8
 - disinfection and cleaning of burs in the inset beaker SD 06 with KD 0 and using STAMMOPUR DB
 - removing of dental cements from instruments in a second inset beaker SD 06 using STAMMOPUR Z
- 5 Disinfection and cleaning of burs in inset beaker SD 06 to be placed into positioning lid DE 255 with STAMMOPUR DB and cement removal of dental prostheses with STAMMOPUR Z

SONOREX DIGITEC · SONOREX SUPER

Ultrasonic cleaning baths SONOREX DIGITEC DT 514 H and SONOREX SUPER RK 514 H are used for the disinfection and cleaning of dental instruments in dental practice and laboratory.

SONOREX SUPER RK 514 H with heating

Code No. 277



SONOREX DIGITEC DT 514 H with heating

Code No. 3211



Technical information

Internal tank dimensions:	325 × 300 × 150 mm (l × w × d)
Capacity:	13,5 litres
Ultrasonic peak output:	860 W
HF output:	215 W _{eff}
Heating:	600 W
External dimensions:	355 × 325 × 305 mm (l × w × h)
Features:	Outlet with ball valve G ½, handles

A clever and effective combination of the accessory parts (page 12/13) allows the use of different disinfection and cleaning agents which enables the reprocessing of various instrument types in one working step.



1



Cassette holder KAH 14
for cleaning of instruments in cassettes

2



Insert basket K 14
for disinfection and cleaning of instruments

3



2 insert baskets K 5 C
desinfection and cleaning of
2 instrument sets loosely arranged

4



Insert basket K 5 C and positioning lid DE 255 with 2 inset beaker SD 06 and an inset sieve basket KD 0 simultaneous disinfection and cleaning of instruments and burs and cleaning of prostheses

5



2 positioning lids DE 255 with 4 inset beakers SD 06 and an inset sieve basket KD 0 for the simultaneous disinfection and cleaning of instruments and burs and cleaning of prostheses

SONOREX ZE Ultrasonic built-in units

Desinfection and cleaning in group practices

Advantages

- space-saving and simple mounting into workplates – enables free working area
- simple mounting by screwing
- hygienic care due to rounded tank edges and installation from below into the workplate

Features

- ultrasonic frequency 35 kHz
- oscillating tank made of stainless steel
- marking of filling level for safe dosage
- CE-marked as a medical device



Example installation from above

SONOREX SUPER ZE 514 DT

Code No. 3202

ZE 514 DT consists of an oscillating tank, HF-generator and control unit ST 30 DT with push-buttons and LCD-display for time and temperature



SONOREX SUPER ZE 514

Code No. 2097

ZE 514 consists of an oscillating tank, HF-generator and control unit ST 15



Technical data

Inner tank dimensions:	325 × 300 × 150 mm (l × w × d)
Material:	stainless steel AISI 304
Capacity:	13,5 litres
Filling volume vor cleaning:	9,0 litres
Transducers (bottom):	4 PZT-large area transducers
Exterior tank dimensions:	350 × 324 × 215 mm (l × w × h)
Outlet:	drain set G 1½
Installation into workplate:	from below or from above
HF-generator:	305 × 310 × 142 mm (l × w × h)
Ultrasonic peak power:	860 W
HF-power:	215 W _{eff}
Current consumption:	1,0 A
Weight:	7,8 kg

Option: Built-in rinsing tank SW 14 Z without ultrasound, with drain set G 1½
Code No. 088

BANDELIN ultrasonic baths enable a fast and thorough disinfection and cleaning of dental instruments, using the right accessories and preparations made especially for use with ultrasonic baths.

Ultrasound intensifies the disinfecting effect and removes impurities from the deepest pores.

Even hard-to-access spots, surfaces, corners and openings can be reached by the ultrasound ("electronic brushing").

It is important to notice that all cleaning objects must be thoroughly rinsed under running water after use in the ultrasonic bath.

Examples of use

Removal of

- organic residue such as blood residue, tissue residue, oil, secretions, dentinal splinter
- stubborn residue such as alginate deposits, dental plaster, grinding and polishing pastes, waxes, flux and cement residue
- tartar from dental prostheses

Objects to be cleaned	Cleaning and disinfecting agents	Instructions for use
Probes, stoppers, syringes and metal instruments	STAMMOPUR DR 8 Cleaning and disinfection VAH-certified C € 0124	Place in the stainless steel or plastic insert basket, hang the basket in the oscillating tank. Sticky syringes become manoeuvrable once again with ultrasonic cleaning – separate the plunger and cylinder from one another and sonicate again.
Drill bits, root canal instruments with plastic handles	STAMMOPUR DB Cleaning and disinfection VAH-certified C € 0124	Place in the inset basket and set the basket in the inset beaker. Place the positioning lid on top of the oscillating tank, hang the inset beaker into the positioning lid. Caution: Do not rinse, only air dry following disinfection and cleaning with STAMMOPUR DB – the preparation contains a corrosion protection agent.
Root canal instruments with anodized handle and colour coding	TICKOMED 1 Universal cleaner C €	
Dental impressions following removal, disinfection of dental prostheses	STAMMOFORM D Disinfection and cleaning (tested according to DGHM guidelines for surface disinfection)	After removal, submerge impressions in the solution without ultrasound for 5 sec. Next, allow to air for 15 min., flush with water and continue processing as needed. Treat prostheses with ultrasound.
Instruments in cassettes	TICKOMED 1 Universal cleaner C €	Cleaning is only possible in the SONOREX SUPER RK 514 H or SONOREX DIGITEC DT 514 H ultrasonic bath. Hang a maximum of 2 cassettes in the oscillating tank using the stainless-steel KAH 14 cassette holder.
Removal of cement residue from glass parts, metal instruments, and tartar from dental prostheses	STAMMOPUR Z Special cleaner Only use in an inset beaker! C €	Place objects in the plastic insert tub with the cement-contaminated side facing downwards and hang the tub in the oscillating tank, or place the positioning lid on top of the oscillating tank and hang the inset beaker containing prostheses and instruments in the positioning lid.
Removal of alginate deposits and dental plaster	STAMMOPUR AG Special cleaner, ready to use C €	Place instruments in the insert basket, hang the basket in the oscillating tank. Some alginates swell during sonication and form a gelatin-like mass that absorbs the ultrasound. They are pre-soaked by the sonication to such an extent that they can be easily brushed off.
Crowns	STAMMOPUR RD 5 for new articles STAMMOPUR Z to remove cement residue C €	Place in the inset basket with the opening facing downwards. Make sure that no bubbles remain in the hollow space. Place the basket in the inset beaker, place the positioning lid on top of the oscillating tank, and hang the inset beaker in the positioning lid.
Impression trays	STAMMOPUR AG C €	Slide them over the impression tray holder and hang in the oscillating tank.
Steel prostheses (plates)	STAMMOPUR RD 5 C €	Place in the stainless steel or plastic insert basket, hang the basket in the oscillating tank. The polishing agent will be thoroughly removed.

Appropriate accessories facilitate ultrasonic application and simultaneously protect oscillating tank and parts to be cleaned. Objects to be cleaned or vessels must not be placed on the bottom of the ultrasonic tank!



K 3 C

Insert basket

stainless steel
For direct cleaning of instruments (probes, pressers, syringes) in the oscillating tank. Optimum permeability of ultrasound.



D 100

Lid

stainless steel.
to protect the liquid from outside dirt. Condensed water runs back into the oscillating tank.



D 14 T

Lid

stainless steel.
to protect the liquid from outside dirt. Recommended for inset baskets without handle.



PK 2 C

Insert basket

plastic, perforated.
For sensitive surfaces.



KW 3

Insert tub

plastic, with lid.
For work with chemicals that attack the stainless steel tank.



K 14 EM

Inset basket K 14 EM

stainless steel
for ZE 514/DT
(230 × 240 × 45 mm)
Basket holder necessary.
Mesh size 4 × 4 mm
Code No. 226



LT 102

Holder

stainless steel.
With silicone spacer for save fixing of up to 8 impression trays.



KT 14

Basket holder KT 14

stainless steel
for ZE 514/DT
for K 14 EM
Code No. 131



KAH 14

Cassette holder

stainless steel.
For simultaneous sonication of up to 2 cassettes. See page 8/9.

Zubehör	Gerät	RK 100 / H DT 100 / H		RK 255 / H DT 255 / H	RK 514 / H DT 514 / H		ZE 514 ZE 514 DT
		RK 31 / H DT 31 / H	RK 102 H DT 102 H				
Insert basket, stainless steel (l × w × h) mm Code No.	K 08 170 × 65 × 50 209	K 3 C 200 × 110 × 40 3025	K 5 C 260 × 110 × 40 3027	K 5 C (2 piece) 260 × 110 × 40 3027	K 14 275 × 245 × 50 354	-	
Insert basket, plastic (l × w × h) mm Code No.	-	PK 2 C 187 × 90 × 56 3082	K 5 P 254 × 96 × 130 113	-	-	-	
Positioning lid, stainless steel Code No.	DE 08 278	DE 100 3017	DE 255 3028	DE 255 (2 piece) 3028	DE 514 3028		
Lid, stainless steel Code No.	D 08 218	D 100 3003	D 255 3007		D 514 3010	D 14* D 14 T** 344 3062	
Insert tub, plastic (l × w × h) mm Code No.	-	KW 3 195 × 115 × 88 715	KW 5 254 × 96 × 130 240		KW 14 280 × 215 × 145 613	KW 14 280 × 215 × 145 613	
Cassette holder, stainless steel (l × w × h) mm Code No.	-	-	-		KAH 14 305 × 208 × 52 7500	-	
Holder, stainless steel Code No.	-	LT 102 371	LT 102 371		-	-	

*installation from below (for KT 14 and K 14 EM) **installation from above (for KT 14 and K 14 EM)

Inset beakers for indirect cleaning of small parts

Suitable for positioning lid DE 08

SD 04 glass, 400 ml,
diameter 76 mm, 110 mm deep,
with ring GR 04, without lid
Code No. 168



KB 04 plastic, 400 ml,
Ø 76 mm, 110 mm deep,
with ring GR 04, without lid
Code No. 3000



SD 05 glass, 600 ml,
diameter 76 mm, 150 mm deep,
with ring GR 04, without lid
Code No. 575



Positioning lid for fixing inset beakers



DE 08
suitable for RK / DT 31 / H

Suitable for positioning lid DE 100, DE 255, DE 514

SD 06 glass, 600 ml,
diameter 84 mm, 125 mm deep,
with ring GR 06 and lid DD 06
Code No. 330



PD 06 plastic, 600 ml,
diameter 86 mm, 125 mm deep,
with ring GR 06 and lid DD 06
Code No. 299



EB 05 stainless steel, 600 ml,
diameter 87 mm, 110 mm deep,
with ring GR 06 and lid DD 06
Code No. 340



Lid DD 06
plastic for SD 06, PD 06, EB 05
(order quantity vor 10 pcs)
Code No. 350



DE 100
suitable for RK / DT 100 / H, 102 H



DE 255
suitable for RK / DT 255 / H



DE 514
suitable for RK / DT 514 / H

Inset sieve basket – mesh net 1 x 1 mm, suitable for inset beakers:

KD 0 for SD 06, PD 06, EB 05
stainless steel, diameter 75 mm inside
Code No. 370



PD 04 for SD 06, PD 06, EB 05, SD 05, KB 04
plastic, diameter 60 mm inside
Code No. 126



TICKOMED– STAMMOPUR Cleaning agents

Optimum cleaning results require the application of appropriate disinfecting and cleaning agents. They must exhibit features to improve the cavitation process and to protect the material during ultrasonic treatment. Many disinfecting and cleaning agents contain substances that can attack the stainless steel oscillating tank.

STAMMOPUR, TICKOMED and STAMMOFORM have been especially developed for ultrasonic application and are CE marked according the Medical Device Directive.

All agents are environmentally friendly and biodegradable.

TICKOMED 1

Universal cleaner for instruments

Removes blood, secretions, sputum, grinding and polishing paste, fat, wax, tissue residues, filling materials, dentinal splinters from instruments, devices, dentures, burs etc.

Concentrate. Very high material compatibility, with corrosion protection. Also for use on light metals.

Applicable as contact liquid. Mildly alkaline, pH 9.0 at 1 %.

Hazard identification: Xi Irritant



Application with ultrasound

3 % - 2 - 10 min

Delivery form	2-litres-bottle	5-litres-jerrycan	25-litres-jerrycan
Code No.	904	949	961

STAMMOPUR RD 5

Intensive cleaner for instruments

Removes obstinate, encrusted contaminations like blood, secretions, sputum, grinding and polishing residues, fat, wax, tissue residues, filling materials from instruments, devices, dentures, crowns etc.

Concentrate. High material compatibility, with corrosion protection. Not applicable for light metals.

Alkaline, pH 10.9 at 1 %.

Hazard identification: Xi Irritant



Application with ultrasound

3 % - 2 - 10 min

Delivery form	2-litres-bottle	5-litres-bottle	25-litres-jerrycan
Code No.	827	901	902

STAMMOPUR Z

Cement remover and denture cleaner

Removes dental cements (except some glas-ionomer cements), tartar, provisional filling materials, embedding materials, oxides and fluxes from instruments and dentures.

Concentrate. For stainless steel, precious metals, plastics, ceramics. Not for use on light metals.

Caution with damaged chrome-plated material.

Application **only** in inset beakers (indirect sonication, contact liquid TICKOMED 1 or STAMOPUR DR 8).

Acid, pH 1.9 at 1 %.

Hazard identification: C Corrosive



Application with ultrasound

5 % - 2 - 10 min

Delivery form	2-litres-bottle	5-litres-jerrycan	25-litres-jerrycan
Code No.	822	928	929

STAMMOPUR AG

Plaster and alginate remover

Removes plasters, alginates, impressing and embedding materials from impression trays, dental tools and accessory. Ready for use. Very high material compatibility. For all materials, also for light metals.

Also applicable without ultrasound e.g.: plaster traps, vacuum mixing devices undiluted for 15–120 min.

Mildly alkaline, pH 8.0.



Application with ultrasound

undiluted - 3 - 10 min

Delivery form	2-litres-bottle	5-litres-jerrycan	25-litres-jerrycan
Code No.	825	906	907

Disinfecting and cleaning agents

STAMMOPUR – STAMMOFORM

STAMMOPUR DR 8 – VAH-certified

Simultaneous instrument disinfection and intensive cleaning

Disinfection and intensive cleaning of instruments after dry deposit. High blood dissolution, for instruments heavily contaminated with incrustations of blood and secretions. Due to short irradiation time especially recommended for the disinfection and cleaning of very sensitive and valuable microsurgical, MIS instruments and endoscopic accessories. Recommended by known manufacturers of endoscopes.

Solution applicable under strain for 3 sequent days. Very high material compatibility. Non-odiferous.

Anticorrosive. Without aldehydes, chlorine, phenols. Bactericidal, tuberculocidal, yeasticidal, virucidal against Vaccinia, BVDV, Papova, Adeno, HBV, HCV, HIV, H5N1, mildly alkaline pH 9.4 at 1 %.

Hazard identification: C, Corrosive; N, Dangerous for the environment

100 g contain: 9.9 g bis(3-aminopropyl)dodecylamine, 8.4 g didecylmethylpolyoxyethylammoniumpropionate, 5 - 10 % non-ionic tensides, 30 - 50 % solvents, complexing agents, pH-regulators, adjusting agents, corrosion protection.

Expertises: Bacteria, fungi: Dr. F.-A. Pitten, Gießen 11/05, Prof. Dr. Werner, Schwerin 10/08; **HBV/HIV:** Prof. Dr. Frösner, München 08/99; **Time**

durability: Prof. Dr. Werner, Schwerin 10/99; **Ultrasound time reduction:** Dr. Färber, Gießen 08/02; **Vaccinia, BVDV, H5N1:**

Prof. Dr. L. Döhner, Dr. D. Becher, Greifswald 08/06; **Papova:** Prof. Dr. L. Döhner, Dr. D. Becher, Greifswald 01/07.

Adeno: Dr. M. Büttner, Dr. D. Becher, Greifswald 11/08.



Application with ultrasound

2 % – 5 min
1,5 % – 10 min
1 % – 15 min

Papova with high protein burden
2 % – 10 min

Adeno with high protein burden
3 % – 15 min

Application without ultrasound

1 % – 60 min
2 % – 30 min
3 % – 15 min

Delivery form	2-litres-bottle	5-litres-jerrycan	25-litres-jerrycan
Code No.	972	974	936

STAMMOPUR DB – VAH-certified

Bur disinfection and cleaning

Simultaneous disinfection and cleaning of rotating dental instruments like burs, cutters and files. Ready for use. With corrosion protection. High material compatibility. Caution with light metals. Not for alkali- and alcohol-sensitive materials. Active against bacteria (incl. Tb.-B.), fungi, viruses (Adeno, Polio according EN 14476 with high protein burden). Alkaline, pH 13.0.

Hazard identification: Xi Irritant

100 g contain: 30 g 2-Propanol, 0,1 g Didecylmethylammoniumchloride, <0,5 % sodiumhydroxide, inhibitors, inorganic salts. **Expertises:** **Bacteria, fungi** according DGHM: Prof. Dr. Wille, 06/04 Gießen; Dipl. Biol. T. Koburger, 07/11 Greifswald; PD Dr. med. F. A. Pitten, Gießen 09/11; **Adeno, Polio:** Dr. M. Büttner, Dr. D. Becher, 05/11 Greifswald. **Ultrasound time reduction:** Prof. Dr. Hartmann, 03/94 Berlin.



Application with ultrasound
undiluted 5 min

Delivery form	2-litres-bottle	5-litres-jerrycan	25-litres-jerrycan
Code No.	821	984	933

STAMMOFORM D

Disinfection and cleaning of bite-impresions and dentures

Simultaneous disinfection and cleaning of bite-impresions and dentures after removing or treatment. High form stability with alginates, silicones, plasters, hydcolloids and polyether rubber. Powder. Very high material compatibility. Free from aldehydes, chlorine, phenols, and quats. Active against bacteria (incl. Tb.-B.), fungi, viruses (polio, vaccinia, adeno, papova). Mildly alkaline, pH 8.9 at 1 %.

Hazard identification: Xn Harmful

100 g contain: 24 g acetoxibenzoic acid, 37,5 g sodiumpercarbonate, complexing agents, <5 % anionic tensides, citrates, carbonates.

Expertises: Bacteria, fungi according DGHM* (surface disinfection): Prof. Dr. Hartmann, 9/94 Berlin, **viruses** (polio, adeno, papova and vaccinia): Prof. Dr. Hartmann 4/87 Berlin.



Application without ultrasound 2 %
Immerse for 5 sec,
disinfected after 15 min

Delivery form	200 g	4 × 200 g
Code No.	924	925



BANDELIN electronic, a family-owned mid-sized company, is located in the capital of Germany – Berlin. The company has 60 years of experience in ultrasound technology. Development and manufacture of ultrasonic devices with appropriate accessory as well as custom-designed and disinfecting and cleaning agents are carried out in Berlin.

A high vertical range of manufacture, modern production lines and a high-motivated staff guarantee a high quality of the products. The customers can buy everything from one-hand. Ultrasonic devices are in use in nearly all branches like industry, maintenance, service, medical, pharmaceutical and dental fields as well as laboratories.

The brand names SONOREX, SONOPULS and SONOMIC are equated with ultrasound from experts.

The most important product groups are:

- SONOREX – Ultrasonic cleaning baths
- SONOPULS – Ultrasonic homogenisers
- SONOMIC – Ultrasonic cleaning bath for rinseable keyhole surgery instruments
- ultraPuls – Ultrasonic therapy devices
- STAMMOPUR and TICKOPUR – Disinfection and cleaning agents

All products are CE marked, also as medical devices according to Medical Device Directive (MDD), and classified to UMDNS™, too. BANDELIN is the leader in development of new ultrasonic devices and opening up new application areas. Certification EN ISO 9001 and EN ISO 13485.

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75720 GB/2013-02

All units are CE marked.
Illustrations exemplarily, not to scale

Subject to technical alterations without notice.
Decoration products are not included in delivery.

The general delivery terms apply.

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**60 years of experience
in ultrasound**

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