

1. **manual** cleaning and disinfection / ultrasonic

The following instruments produced by KARL STORZ can **not** be **soaked or immersed** in a **liquid / chemical solution**:

- Telescopes with HAMOU eyepiece drive mechanism
- Magnifying lenses with drive mechanism
- IMPERATOR handpieces
- Prismatic light deflectors
- For motors and their handles the appropriate manual provides detailed information

The following instruments produced by KARL STORZ can **not** be **placed** in an **ultrasonic** cleaning bath:

- Rigid optics
- Flexible optics
- Further instruments with optical components made out of glass

Please follow **chemical reagents manufacturers instructions** paying close **attention to proper dilution and recommended exposure times**. Regarding the microbiological effectiveness please ask the manufacturer. We approved the following cleaning- and disinfection solutions for use with KARL STORZ instruments regarding the material compatibility:

Note: For video endoscopes please refer to our separate list of approved chemicals.

Supplier	Trade name	Method / see legend
Anios	Anioxyde 1000	2
Anios	Octanius basique	1, 2
Anios	Steranios 2%	2
Antiseptica chem.pharm.Prod. GmbH	Descogen I	1, 2
Antiseptica chem.pharm.Prod. GmbH	Kombi Instru.-Desinfektion N	1, 2
Antiseptica chem.pharm.Prod. GmbH	Triacid N	1, 2, 3 A
B. Braun Medical AG	Helipur H plus N	1, 2, 3 (A)
B. Braun Medical AG	Helizyme	1
B. Braun Medical AG	Helix ultra	2
B. Braun Medical AG	Stabimed	1, 2, 3
Bandelin electronic GmbH	Stammopur DR	1, 2, 3
Bandelin electronic GmbH	Stammopur DR 8	1, 2, 3
Bandelin electronic GmbH	Stammopur GR	1, 3
Bandelin electronic GmbH	Stammopur R	1, 3
Bochemie a.s.	Chirosan	2
Bochemie a.s.	Chirosan plus	1, 2
Bochemie a.s.	Discleen enzyme	1, 3
Bochemie a.s.	Discleen Endo AF	2
Bochemie a.s.	Discleen Endo PAA	1, 2
Bochemie a.s.	Discleen Extra	1, 2

Bode Chemie GmbH	Aseptisol	2, 3	
Bode Chemie GmbH	Bodedex forte	1, 3	
Bode Chemie GmbH	Bomix plus	1, 2	
Bode Chemie GmbH	Korsolex AF	2	A
Bode Chemie GmbH	Korsolex basic	2, 3	
Bode Chemie GmbH	Korsolex extra	2	
Bode Chemie GmbH	Korsolex PAA	2	
Borer Chemie AG	Deconex 36 Intensiv	1, 3	
Borer Chemie AG	Deconex 50 FF	1, 2	
Borer Chemie AG	Deconex 53 Plus	2	
Borer Chemie AG	Deconex HLD PA / PA 20	2	
Borer Chemie AG	Deconex 54 Sporcide	2	
DuPont	PeraSafe	2	
Deppe, Laboratorium Dr. rer. nat.	EndoStar	2	
Deppe, Laboratorium Dr. rer. nat.	InstruPlus	1, 2, 3	
Deppe, Laboratorium Dr. rer. nat.	InstruPlus N	2, 3	
Deppe, Laboratorium Dr. rer. nat.	InstruStar	1, 2, 3	A
Deppe, Laboratorium Dr. rer. nat.	InstruZym	1, 3	
Ecolab GmbH & Co. OHG	Sekusept aktiv	1, 2	(A)
Ecolab GmbH & Co. OHG	Sekusept Cleaner	1, 3	
Ecolab GmbH & Co. OHG	Sekusept easy	2	
Ecolab GmbH & Co. OHG	Sekusept extra N	1, 2, 3	
Ecolab GmbH & Co. OHG	Sekusept forte	2, 3	
Ecolab GmbH & Co. OHG	Sekusept MultiEnzyme	1, 3	
Ecolab GmbH & Co. OHG	Sekusept Plus	1, 2, 3	
Ecolab GmbH & Co. OHG	Sekusept Pulver Classic	1, 2, 3	
Ecolab GmbH & Co. OHG	Seku Zyme	1	
Esteer Pharma GmbH	Ultraseptin Aktiv	1, 2, 3	
Esteer Pharma GmbH	Ultraseptin Classic	1, 2, 3	
Esteer Pharma GmbH	Ultradessmit AF	1, 2	
Fresenius AG	Afid	1, 2	
Fresenius AG	Afid plus	2	
Fresenius AG	Sprocid FF	1, 2	
Heck dental GmbH	Ventisept M Plus Neu	1, 2	
HIMED GmbH	EndoSeptol FF	2	
HIMED GmbH	InstruCid AF	2	A
Holifa Poska Sp. zo.o	Polsept Holifa	1, 2	
Holifa Poska Sp. zo.o	Polsept Plus	1, 2	(A)
Indeba Industira E Comercio LTDA	Letahdeido	2	

Jose Collado S.A.	Darodor 4000 Liquido	1	
Jose Collado S.A.	Darodor 9000	2	
Jose Collado S.A.	Darodor Sinaldehyd 2000	2	
Lonza AG	Formulierung ID 50	2	
Lysoform Dr. Rosemann GmbH	Aldasan 2000	1, 2	
Lysoform Dr. Rosemann GmbH	Almyrol	1, 2	
Lysoform Dr. Rosemann GmbH	Desoform	1, 2, 3	
Lysoform Dr. Rosemann GmbH	Lysoformin 3000	1, 2	
Medichem Internationl	MediZyme	1	
Medichem Internationl	MedDis	2	
Merz Hygiene GmbH	Mucadont-Zymaktiv	1, 3	
Merz Hygiene GmbH	Edisonite Super	1, 3	
Merz Hygiene GmbH	Mucadont-IS	2, 3	
Merz Hygiene GmbH	Mucocit-T neu	1, 2, 3	
METASYS Medizintechnik GmbH	ID 50	2	
Orochemie	A 20	1, 3	A
Minntech International	Adaspor	2	
Promagent AB	Wavacide	2	
Schumacher, Dr. GmbH	Descoton forte	2	
Schumacher, Dr. GmbH	Descoton Extra	1, 2	
Schumacher, Dr. GmbH	Perfektan Endo	2, 3	
Schumacher, Dr. GmbH	Perfektan TB	1, 2, 3	A
Schülke & Mayr GmbH	Gigasept AF (forte)	1, 2	
Schülke & Mayr GmbH	Gigasept FF (neu)	1, 2	
Schülke & Mayr GmbH	Gigasept Instru AF	1, 2, 3	A
Schülke & Mayr GmbH	Gigasept Med forte	1, 2	
Schülke & Mayr GmbH	Gigasept PAA concentrate	2	(A)
Schülke & Mayr GmbH	Gigazyme	1, 3	
Schülke & Mayr GmbH	Lysetol V	2	
Steris	EnzyCare 2	1, 3	
Weigert, Dr. GmbH & Co.	neodisher LM 2	1, 3	
Weigert, Dr. GmbH & Co.	neodisher mediclean	1	
Weigert, Dr. GmbH & Co.	neodisher mediclean forte	1, 3	
Weigert, Dr. GmbH & Co.	neodisher medizym	1, 3	
Weigert, Dr. GmbH & Co.	neodisher SeptoClean	1	A
Weigert, Dr. GmbH & Co.	neodisher Septo PAC	2	
Weigert, Dr. GmbH & Co.	neodisher SeptoPreClean	1, 2	
Whiteley Industries PTY.Ltd	Aidal Plus	2	
Whiteley Industries PTY.Ltd	Matrix	1	

Legend:

- 1 = cleaner
- 2 = disinfection agent
- 3 = suitable for ultrasonic
- A = not suitable for fiberscopes according to manufacturers' instructions
- (A) = only for the new generation of flex. fiberscopes (> year of construction 2005)

For others as mentioned above KARL STORZ gives no guarantee in case of any damage.



Warning:

The use of *NaOH* (caustic soda) can lead to alteration on surfaces of aluminum (also coated), polymers and soldering joints and may reduce life time of the instruments. **Only** the **shaft** of fiberscopes can be soaked in NaOH, the **handle / head** of the instrument **must not** be immersed.

2. Cleaning and disinfection in washer-disinfectors

The following instruments produced by KARL STORZ can **not** be **processed in a cleaning and disinfection machine**:

- Telescopes with HAMOU eyepiece drive mechanism
- Magnifying lenses with drive mechanism
- IMPERATOR handpieces
- Standard-, tungsten carbide- and diamond burrs
- Prismatic light deflectors
- For motors and their handles the appropriate manual provides detailed information

The selection of method for cleaning and disinfection of optics should be chosen after consultations with the manufacturer of the machine and the supplier of the chemical reagents. Only special processes are allowed to use which have been validated for this purpose. Regarding the microbiological effectiveness please ask the manufacturer. The thermal disinfection is preferred. We approved the following cleaning- and disinfection solutions for use with KARL STORZ instruments in washer-disinfectors regarding the material compatibility:

Supplier	Trade name	Method / see legend
BHT Hygiene Technik GmbH	BHT Scope Cleaner	1
BHT Hygiene Technik GmbH	BHT Scope Desinfectant	2
Bode Chemie GmbH	Dismoclean 24 Vario	1
Bode Chemie GmbH	Dismoclean 28 alka one	1
Bode Chemie GmbH	Korsolex-Endo-Cleaner	1
Bode Chemie GmbH	Korsolex-Endo-Disinfectant	2
Borer Chemie AG	Deconex 23 Neutrazym	1
Borer Chemie AG	Deconex 28 Alka One	1
Borer Chemie AG	Deconex 55 Endo	2
Borer Chemie AG	Deconex Endomatic	2
B. Braun Medical AG	Helimatic Cleaner alkaline	1

B. Braun Medical AG	Helimatic Cleaner enzymatic	1	
B. Braun Medical AG	Helimatic Rinse neutral	5	
Deppe, Laboratorium Dr. rer. Nat.	Endomat Plus	1, 2	
DiverseyLever	Sumatox E	1	
Ecolab GmbH & Co. OHG	Sekumatic FD	2	
Ecolab GmbH & Co. OHG	Sekumatic FNZ	4	
Ecolab GmbH & Co. OHG	Sekumatic FR	1	
Ecolab GmbH & Co. OHG	Sekumatic FRE	1	
Ecolab GmbH & Co. OHG	Sekumatic NeutraClean	4	
Ecolab GmbH & Co. OHG	Sekumatic MultiClean	1	
IMS	Adaspor Ready to Use	2	
Medisafe UK, Ltd.	3E-Zyme / HS - Zyme	1	
Merz Consumer Care GmbH	Mucapur AF	1	
Merz Consumer Care GmbH	Mucapur ED	2	
Merz Consumer Care GmbH	Mucapur ER	1	
Ruhof Corporation	Endozime AW	1	
Schumacher, Dr. GmbH	Thermoton Endo	2	
Schumacher, Dr. GmbH	Thermoton NR	1	
Schumacher, Dr. GmbH	Thermoton Desinfektant	2	
Schülke & Mayr GmbH	Thermosept alka clean forte	1	
Schülke & Mayr GmbH	Thermosept DK	2	
Schülke & Mayr GmbH	Thermosept ED	2	
Schülke & Mayr GmbH	Thermosept ER	1	
Schülke & Mayr GmbH	Thermosept OXY	1	
Schülke & Mayr GmbH	Thermosept PAA	2	
Schülke & Mayr GmbH	Thermosept RKN-zym	1	
Schülke & Mayr GmbH	Thermosept RKF forte	1	
Steris	Instru-Klenz	1, 3	
Weigert, Dr. GmbH & Co.	neodisher DuoClean	1	
Weigert, Dr. GmbH & Co.	neodisher FA	1	
Weigert, Dr. GmbH & Co.	neodisher FA forte	1, 3	
Weigert, Dr. GmbH & Co.	neodisher Oxivario	1	
Weigert, Dr. GmbH & Co.	neodisher mediclean	1	
Weigert, Dr. GmbH & Co.	neodisher mediclean forte	1, 3	
Weigert, Dr. GmbH & Co.	neodisher mediklar	5	
Weigert, Dr. GmbH & Co.	neodisher medizym	1	
Weigert, Dr. GmbH & Co.	neodisher SeptoClean	1, 2	A
Weigert, Dr. GmbH & Co.	neodisher Septo DA	2	
Weigert, Dr. GmbH & Co.	neodisher Septo DN	2	

	Chemicals for cleaning and disinfection of telescopes, fiberscopes and endoscopic instruments	Actuality: August 4th 2009
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Legend:

- 1 = cleaner
- 2 = disinfection agent
- 3 = suitable for ultrasonic
- 4 = neutralizer
- 5 = rinse aid

For others as mentioned above KARL STORZ gives no guarantee in case of any damage.