

TuttnauerClean Detergent Catalog





Welcome to TuttnauerClean

Choosing the right washer, detergents, and cleaning materials help simplify the validation process.

Tuttnauer presents a large range of CE-marked high-quality cleaning and disinfecting products that meet the most up-to-date requirements and the firmest regulations. Our TuttnauerClean line will make your cleaning process cost-effective, work better, utilize them more, and you can find everything under one roof. From washing- disinfecting to sterilization.

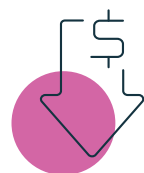
In addition, TuttnauerClean has solutions for endoscope cleaning to instrument automated reprocessing. Used by hospitals, dental and vet clinics, and even in the food industries in over **140 countries** around the world, medical and science professionals are choosing time and time again to return to 100 years of experience and innovative experts.

Cleaning validation is both necessary and time-consuming but also an essential requirement in industries such as healthcare, food, life science, etc. by using the TuttnauerClean series, you can insure:



Extend the life of your instruments

Well-manufactured instruments should last for years, but the instrument's longevity will also depend on the quality of care received during those years. Maintaining a good cleaning routine will prolong your surgical instruments' lifetime while protecting patient health.



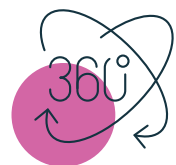
Cost Effective

highly concentrated formulas will make your washers produce the same great results for less detergent.



Top Quality high standards

Our new formulations comply with the latest guidelines and regulations for cleaners and disinfectants.



360° Solutions

As a company that understands the importance of sanitation in your industry, we make sure you are not only cleaning but your space is also validated.

TIVA Washer-Disinfectors

Our best machines Your optimum results

For medical centers and small clinics, Tuttnauer's washer-disinfectors represent the evolution of a fast and flexible turnkey solution: strict cleaning, disinfection, and sterilization of instruments before using them on patients.

Our TIVA line provides:

- ◆ Thermal High Disinfection to achieve a complete decontamination cycle.
- ◆ Advanced control system and an easy-to-use interface.
- ◆ Designed to simplify your work by eliminating manual washing and reducing your workforce.
- ◆ Environmentally friendly- Less water and chemicals consumption.
 - Up to 25% water saving.
 - Up to 30% energy saving.
- ◆ Traceability and record keeping.
- ◆ Export all cycle data in an editable CSV and PDF format.
- ◆ Ensuring safety for both patients and staff by providing standardization of quality and eliminating risks of exposure to potentially harmful aerosols.



T-CLEAN A

Alkaline detergent for the automated reprocessing of surgical instruments and equipment

T-CLEAN A is a highly concentrated and efficient alkaline detergent specially formulated for cleaning surgical instruments, medical equipment, ophthalmological instruments, anesthetic and endoscopic equipment, laboratory glassware, and similar applications. Formulated with alkaline agents, surfactants, highly stabilized enzymes, and powerful corrosion inhibitors, T-CLEAN A makes the dissolution of organic residues such as fatty and protein deposits easier while effectively contributing to biofilm removal.

T-CLEAN A is recommended for heat-resistant and heat-sensitive instruments. In addition, it can be used in automatic washers, ultrasonic baths, or immersion baths.

Properties

- ◆ Drastically efficient due to the specific combination of alkaline agents, surfactants, and a new generation of stabilized enzymes
- ◆ Does not leave any residues
- ◆ Follows the guidelines of the Robert Koch Institute (RKI) concerning the decontamination of surgical instruments from prions (Creutzfeldt-Jacob disease).
- ◆ Contributes to the removal of biofilm
- ◆ Can be used in soft or hard water
- ◆ Does not foam and prevents corrosion and instrument discoloration.
- ◆ Appropriate for heat-sensitive as heat-resistant instruments

Composition

< 5% Non-ionic and anionic surfactants, chelating agent, corrosion inhibitor, pH regulator.

Compatibility

T-CLEAN A is compatible with most materials such as stainless steel, glass, ceramics, hard plastics, ebonite, etc. Material compatibility with sensitive materials should always be checked before use.

Physical properties

- ◆ Appearance: Transparent solution
- ◆ Density: 1.02 g/cm³ at 20°C
- ◆ pH: 10.00-10.50 at 20°C
- ◆ pH (1% in deionized water): 10.20-10.80 at 20°C
- ◆ Viscosity: <50 mPas at 20°C
- ◆ Storage: 5°C - 35°C
- ◆ Stability: 3 Years
- ◆ Biodegradability: According to OCDE 301D

Instructions for use

In immersion or ultrasonic baths

1. Dilute T-CLEAN A in hot or cold water at a dilution of 0,4% (4ml/l.) to 2% (20 ml/l.). Open all instruments with joints.
2. Immerse them into the solution. Be sure they are fully covered and leave them soak for at least 5 minutes.
3. Use mechanical action if needed. Rinse your instruments with running water.
4. Dry thoroughly with a single-use paper. Your instruments are ready for sterilization.
5. Change the solution when it becomes soiled or at least daily.

Washer disinfectors

1. Set up the washer for a dilution of 0,1% to 1%.
2. The dosing is achieved through the washer's interface.
3. Follow the manufacturer's instructions.
4. Always adjust the dosage and contact time depending on the degree of soiling, water quality and cleaning temperature.
5. For best results, the use of deionized water is preferred.

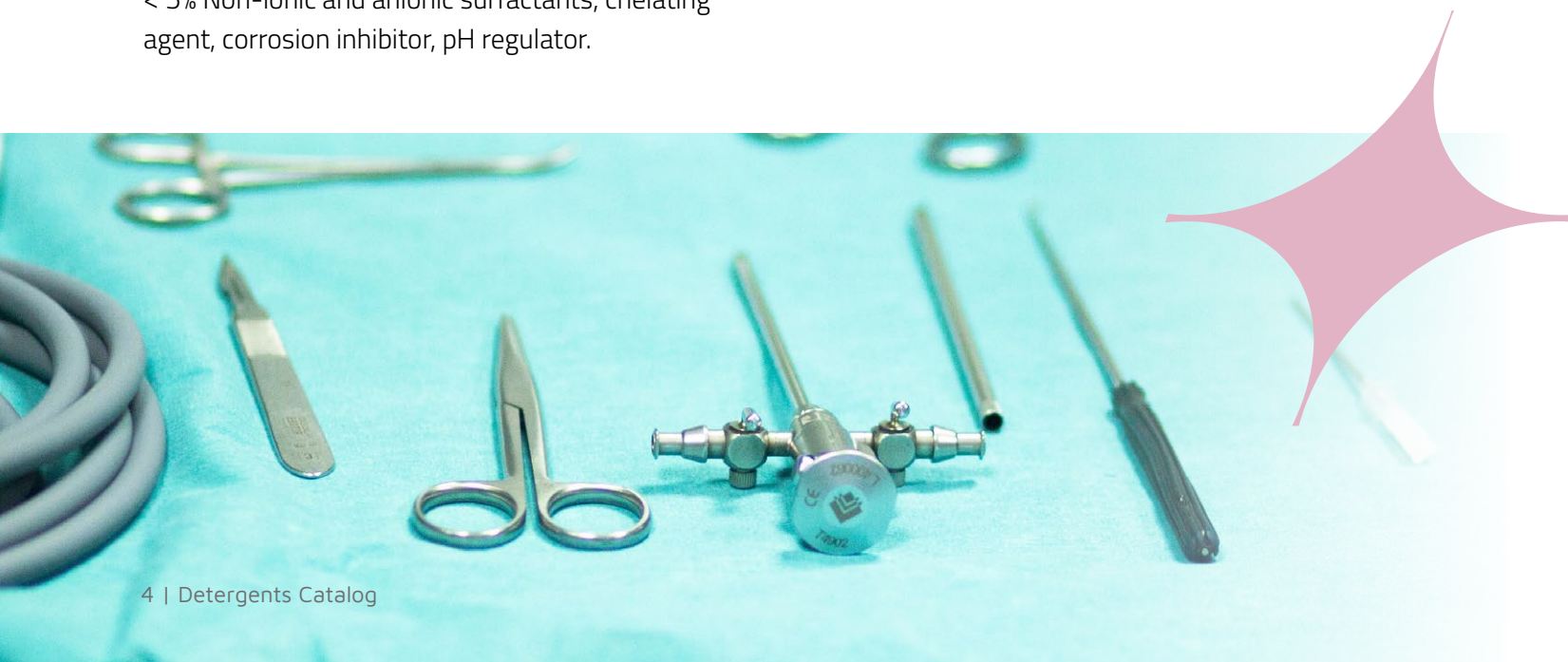
NOTE:

- ◆ For professional use only.
- ◆ The packaging must be closed tightly after use.
- ◆ Do not mix with other products.
- ◆ Store the product between + 5°C and + 35°C.

CE mark according to the medical devices MDR Regulation (EU) 2017/745
Medical device class I



Packaging
5 liter canister
PN. WSH238-0014
1 liter canister
PN. WSH238-0019



T-CLEAN A is manufactured in the E.U.

Tuttnauer satisfies the requirements of ISO 9001:2015 for quality management system and the requirements of ISO 13485:2016 for the design and manufacture of medical devices.

T-CLEAN N

Acidic Deposit Neutralizer & Instrument Renovator

T-CLEAN N is an acidic detergent. It is a highly concentrated combination of organic and inorganic acids. Removes limescale, rust stains, and mineral deposits off instruments as well as the inside walls of the washer-disinfectors. It can be used: In automatic washers, washer disinfectors, or other instrument reprocessing equipment as a neutralizing agent of alkaline residues for surgical instruments and glassware. In immersion bath, as a powerful instrument renovator. T-CLEAN N will remove rust stains and restore the initial brilliance of degraded or discolored instruments.

T-CLEAN N is compatible with stainless steel instruments, ophthalmological instruments, anesthetic equipment, laboratory glassware, hard plastics, and all acid-resistant medical devices.

Properties

- ◆ Restores the initial brilliance of degraded or discolored instruments
- ◆ Removes alkaline residues, mineral scale and rust stains
- ◆ Restores stainless steel surface finish
- ◆ Keeps the washer disinfectors chamber clean and shiny
- ◆ Very economical: 0.05% to 0.4% dilution
- ◆ Does not contain any surfactants
- ◆ Prevents corrosion and instrument discoloration

Composition

Citric acid, Phosphoric acid > 50%.

Compatibility

T-CLEAN N is compatible with most materials like stainless steel, glass, ceramics and acid resistant materials. Material compatibility with sensitive materials should always be checked before use.

Physical properties

- ◆ Appearance: Transparent solution
- ◆ Density: 1.50 g/cm³ at 20°C
- ◆ pH (0,5 - 4 ml/l.): <2 at 20°C
- ◆ Viscosity: <20 mPas at 20°C
- ◆ Storage: 5°C - 35°C
- ◆ Stability: 3 Years
- ◆ Biodegradability: According to OCDE 301D

Instructions for use

In automatic washers

1. T-CLEAN N is to be used in washer disinfectors at a dilution from 0.5 ml/l. (0.05%) to 4 ml/l. (0.4%).
2. The dilution rate depends on the quality and temperature of the water.
3. The solution has to be rinsed off after use.
4. The use of deionized water should be preferred.
5. Always follow the washer manufacturer's instructions.

In immersion bath as instrument renovator

1. Dilute 20 ml. to 40 ml. of T-CLEAN N in 1 liter of water (2% to 4% dilution).
2. Stir gently.
3. Immerse the instruments into the solution.
4. Let them soak from 5 min. to 15 min.
5. Brush them gently to renovate weathered areas.
6. Your instruments should have regained their initial brilliance.
7. Rinse carefully your instruments with running water and wipe them with a single use paper.

NOTE:

- ◆ Change the solution every 48 hours or when it becomes dirty.
- ◆ Do not mix with other disinfectants.
- ◆ The packaging must be closed tightly after use.
- ◆ Store between +5 °C and +35 °C.



Packaging
5 liter canister
PN. WSH238-0012
1 liter canister
PN. WSH238-0017

CE mark according to the medical devices MDR Regulation (EU) 2017/745
Medical device class I

Recommended dosage table

Cleaning method	Recommended Dosage (%)*	Recommended Dosage (ml/l)	Water Temp (°C)	Contact Time
Immersion Bath	0.5% - 1%	5 ml/l - 10 ml/l	20 - 60 °C	1 - 10 min
Ultrasonic Bath	0.2% - 0.5%	2 ml/l - 5 ml/l	40 - 60 °C	1 - 5 min
Automated Reprocessor	0.15% - 0.5%	1.5 ml/l - 5 ml/l	40 - 60 °C	1 - 5 min **



T-CLEAN E

Multi-enzymatic cleaner for surgical instruments and endoscopes

T-CLEAN E is a very efficient concentrated enzymatic cleaner for surgical instruments and endoscopes. T-CLEAN E contains a combination of enzymes (protease, lipase, amylase) that degrade proteins, fats, and blood residues. This synergy of enzymes removes biofilm from the internal and external surfaces of the biopsy chains of endoscopes. Its non-foaming and neutral pH formulation is totally adapted to the cleaning of flexible endoscopes. T-CLEAN E can be used in ultrasonic bath, in automated endoscope washer, in instrument washers, in immersion bath. T-CLEAN E is compatible with OLYMPUS®, KARL STORZ®, FUJINON® and PENTAX MEDICAL® endoscopes.

Properties

- ◆ A new generation of enzymes for an enhanced cleaning action
- ◆ Effectively removes organic residues
- ◆ Dissolves the biofilm
- ◆ Very economical
- ◆ Does not foam
- ◆ Prevents corrosion and instrument discoloration
- ◆ Compatible with heat-sensitive instruments
- ◆ Does not contain aldehydes, phenols, chlorine or EDTA

Composition

Protease, lipase, amylase, non ionic surfactants <5%, corrosion inhibitor, pH regulator, excipients.

Compatibility

T-CLEAN E is compatible with most materials such as stainless steel, aluminum, glass, ceramics, hard plastics, ebonite, etc.

Physical properties

- ◆ Appearance: Transparent orange solution
- ◆ Density: 1.02 g/cm3 at 20°C
- ◆ pH: 7.0-8.0 (neutral) at 20°C
- ◆ pH (0,5% - 1%): 7.0-8.0 (neutral) at 20°C
- ◆ Odour: Mild lemon peppermint fragrance
- ◆ Storage: 5°C - 35°C
- ◆ Stability: 3 Years
- ◆ Biodegradability: According to OCDE 301D

CE mark according to the medical devices MDR Regulation (EU) 2017/745
Medical device class I

Recommended dosage table

Cleaning method	Recommended Dosage (%)*	Recommended Dosage (ml/l)	Water Temp (°C)	Contact Time
Immersion Bath	0.5% - 1%	5 ml/l - 10 ml/l	20 - 60 °C	1 - 10 min
Ultrasonic Bath	0.2% - 0.5%	2 ml/l - 5 ml/l	40 - 60 °C	1 - 5 min
Automated Reprocessor	0.15% - 0.5%	1.5 ml/l - 5 ml/l	40 - 60 °C	1 - 5 min **

Instructions for use

In immersion bath

1. Dilute T-CLEAN E in soft water according to the dosage recommendations.
2. Open all instruments with joints. Immerse them into the solution.
3. Be sure they are fully covered and leave them soak for a few minutes.
4. Rinse your instruments.
5. Dry thoroughly with a single-use paper.
6. Your instruments are ready for sterilization.

In ultrasonic bath

T-CLEAN E can be used in all common types of ultrasonic baths. Do not exceed 60°C.

In automated reprocessor

T-CLEAN E can be used in automated reprocessor. Do not exceed 60°C. Follow the manufacturer's instructions.

NOTE:

- ◆ Change the solution every 48 hours or when it becomes dirty.
- ◆ Do not mix with other disinfectants.
- ◆ The packaging must be closed tightly after use.
- ◆ Store between +5°C and +35°C.



Packaging
5 liter canister
PN. WSH238-0013
1 liter canister
PN. WSH238-0018



T-CLEAN E 6 PLUS

Multi-enzymatic cleaner for surgical instruments and endoscopes

T-CLEAN E 6 PLUS is a very concentrated multienzymes detergent specially formulated for cleaning endoscopes and surgical instruments. Thanks to the synergy of 7 enzymes (protease, lipase, amylase, pectase, mannanase and cellulases), it dissolves rapidly all types of organic residues such as proteins, lipids, starch, cellulose, polysaccharides, and blood deposits. It effectively removes biofilm while preserving endoscope materials.

T-CLEAN E 6 PLUS is compatible with PENTAX MEDICAL®, OLYMPUS®, FUJINON® and KARL STORZ® endoscopes.

T-CLEAN E 6 PLUS can be used in ultrasonic baths, immersion baths or in automatic washers.

Properties

- ◆ A synergy of highly stabilized enzymes for a powerful cleaning action
- ◆ Effectively removes all types of organic residues
- ◆ Dissolves the biofilm
- ◆ Very economical
- ◆ Does not foam
- ◆ Prevents corrosion and instrument discoloration
- ◆ Compatible with heat-sensitive instruments

Composition

Enzymes, non ionic surfactants <5%, corrosion inhibitor, pH regulator, excipients.

Compatibility

T-CLEAN E 6 PLUS is compatible with most materials such as stainless steel, aluminum, glass, ceramics, hard plastics, ebonite, etc

Physical properties

- ◆ Appearance: Transparent orange solution
- ◆ Density: 1.02 g/cm3 at 20°C
- ◆ pH: 7.0-8.0 (neutral) at 20°C
- ◆ pH (0,5% - 1%): 7.0-8.0 (neutral) at 20°C
- ◆ Odour: Mild lemon peppermint fragrance
- ◆ Storage: 5°C - 35°C
- ◆ Stability: 3 Years
- ◆ Biodegradability: According to OCDE 301D

Certifications: CE mark according to the medical devices MDR Regulation (EU) 2017/745
Medical device class I

Recommended dosage table

Cleaning method	Recommended Dosage (%)*	Recommended Dosage (ml/l)	Water Temp (°C)	Contact Time
Immersion Bath	0.5% - 1%	5 ml/l - 10 ml/l	20 - 60 °C	1 - 10 min
Ultrasonic Bath	0.2% - 0.5%	2 ml/l - 5 ml/l	40 - 60 °C	1 - 5 min
Automated Reprocessor	0.15% - 0.5%	1.5 ml/l - 5 ml/l	40 - 60 °C	1 - 5 min **

Instructions for use

In immersion bath

1. Dilute T-CLEAN E 6 PLUS in running water according to the dosage recommendations.
2. Open all instruments with joints.
3. Immerse them into the solution.
4. Be sure they are fully covered and leave them soak for a few minutes.
5. Rinse your instruments with running water.
6. Dry thoroughly with a single-use paper.
7. Your instruments are ready for sterilization.

In ultrasonic bath

T-CLEAN E 6 PLUS can be used in all common types of ultrasonic baths. Do not exceed 60°C.

In automated reprocessor

T-CLEAN E 6 PLUS can be used in automated reprocessor.
Do not exceed 60°C. Follow the manufacturer’s instructions.

NOTE:

- ◆ Change the solution every 48 hours or when it becomes dirty.
- ◆ Do not mix with other disinfectants
- ◆ The packaging must be closed tightly after use
- ◆ Store between +5 °C and +35 °C.

Endoscope cleaning

Cleaning is the critical step in endoscope reprocessing. It consists of the mechanical cleaning of internal an external surfaces of the endoscope. This includes brushing them carefully with a dertergent solution, and then flushing thoroughly with soft water. The purpose of cleaning is to remove all organic and inorganic materials from the internal and external surfaces of flexible endoscopes. If the manual cleaning, brushing and rinsing steps are not properly carried out, protein debris can harden and lead to formation of biofilm on the biopsy channel of the endoscope. Inadequate cleaning can thus result in material remaining on the endoscope surfaces which prevents disinfectant reaching all parts of potentially contaminated surfaces. For this reason, the endoscope should be cleaned with an enzymatic detergent immediately after use and prior to the disinfection step.

T-CLEAN E contains a combination of specific enzymes. The enzymes break down the soil into tiny fragments, making it water soluble and thus easier to remove by rinsing.

Use T-CLEAN E for endoscope cleaning: **By manual cleaning | In automated reprocessor**



Packaging
5 liter canister
PN. WSH238-0022
1 liter canister
PN. WSH238-0021

T-CLEAN R

Rinse aid for the automated reprocessing of surgical instruments and equipment

T-CLEAN R is a highly concentrated solution specially formulated for the fast and spotless drying of surgical instruments, glassware, and other sensitive medical devices. In addition, it can be used on stainless steel instruments, ophthalmological instruments, anesthetic equipment, laboratory glassware, plastics, and hard rubbers. T-CLEAN R reduces the surface tension of the water on the instruments allowing them to dry quickly without leaving any residues.

T-CLEAN R can be used in automatic washers, washer disinfectors, carts, tunnel washers, or other instrument reprocessing equipment.

Properties

- ◆ Drastically shortens drying time
- ◆ Leaves the instruments filmless and spot free
- ◆ Very economical: 0,01% to 0,03% dilution
- ◆ Can be used in soft or hard water
- ◆ Does not foam, prevents corrosion and instrument discoloration
- ◆ Appropriate for heat-resistant as well as heat-sensitive instruments

Composition

Non ionic surfactants 15% - 20%, phosphonates, corrosion inhibitor, pH regulator, excipients.

Compatibility

T-CLEAN R is compatible with most materials such as stainless steel, aluminum, glass, ceramics, hard plastics, ebonite, etc. Material compatibility with sensitive materials should always be checked before use.

Physical properties

- ◆ Appearance: Transparent yellow solution
- ◆ Density: 1.02 g/cm³ at 20°C
- ◆ pH: 6.0-7.0 at 20°C
- ◆ pH (0,2-0,8ml/l): 7.0-8.0 (neutral) at 20°C
- ◆ Viscosity: <50 mPas at 20°C
- ◆ Storage: 5°C - 35°C
- ◆ Stability: 3 Years
- ◆ Biodegradability: According to OCDE 301D

Instructions for use

- ◆ T-CLEAN R is to be used in washer disinfectors during the rinsing cycle at a dilution from 0/1 ml/l. (0/01%) to 0/3 ml/l. (0/03%).
- ◆ The dilution rate depends on the quality and temperature of the rinse water.
- ◆ For best results, the use of deionized water is preferred.

NOTE:

- ◆ The packaging must be closed tightly after use.
- ◆ Always follow the washer manufacturer's instructions.
- ◆ For professional use only.
- ◆ Do not mix with other products.
- ◆ Store between +5°C and +35°C.

CE mark according to the medical devices MDR Regulation (EU) 2017/745
Medical device class I

Tuttnauer NOSOCLEAR has been tested according to ISO 10993-1 and is not toxic



Packaging
5 liter canister
PN. WSH238-0011
1 liter canister
PN. WSH238-0016



More Products From Tuttnauer

As a worldwide leading manufacturer of professional medical equipment, Tuttnauer's consumables line, represented a symbol of excellence, will give you the highest standard of cleaning validation

Cleaning Device Kit

For Automatic Endoscope Re-processors / Washers. Designed to evaluate the effectiveness of flexible endoscopes cleaning or other instruments to be reprocessed in Automatic Endoscope Re-processors and/or Automatic Thermo-disinfecting Washers.

PN WTL198-0066



Cleaning Indicators

Designed for routine control of cleaning processes and for monitoring automatic washing machine effectiveness as well as for monitoring ultrasonic washing machines which operate at frequencies equal to or greater than 35 kHz, and temperatures between 30 °C and 70 °C.

PN WTL198-0061 / WTL198-0062



Thermo-disinfection Indicator

For routine control of thermal disinfection processes. Designed for monitoring moist heat disinfection processes in washer-disinfectors.

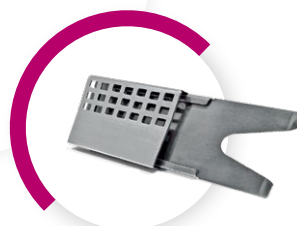
PN WTL198-0063



Cleaning indicators holder

Cleaning indicators holder for Tuttnauer cleaning indicators. Designed to hold indicators used for cleaning process routine control and monitoring automatic washing machine effectiveness as well as monitoring ultrasonic washers.

PN WTL198-0065



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