



# Solutions Guide

### DISINFECTANTS AND CLEANERS

TexQ<sup>®</sup> | TexTab<sup>™</sup> | TexCide<sup>™</sup> | TexP<sup>™</sup> | IPA | Ethanol

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#### About Texwipe

Texwipe's commitment to innovation, leadership and quality in cleanroom consumable products spans more than fifty years. We invest in technology to respond to our customers' evolving needs in contamination control.

#### Texwipe's Core Values are:

- Innovation Texwipe pioneers the latest technologies to provide innovation in contamination control products and processes.
- Quality Texwipe product quality is maintained by the most advanced testing and quality control standards in the industry.
- Technology Leadership Texwipe leads our industry in testing metrology, methods and processes to reduce contamination.

Throughout Texwipe's global operations, we support our customers with products designed to exceed the requirements for cleanroom consumable products. Our highly professional team will help you select and develop products for any critical environment application.



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	Disinfectants			Cleaners		
	TexQ <sup>®</sup>	TexTab™	TexCide™	B84 B84 Experies TexP™	THE STATE	Sacer Baser
Applications						
EPA-registered	$\checkmark$	$\checkmark$	$\checkmark$			
One-step cleaner and disinfectant	$\checkmark$	✓ some dilutions	$\checkmark$			
Sporicidal (kills spores)		$\checkmark$	$\checkmark$			
May be used in pre-cleaning	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
May be used in disinfectant rotation program	$\checkmark$	1	$\checkmark$	<i>✓</i>	$\checkmark$	$\checkmark$
May be used as residue removal agent				$\checkmark$	$\checkmark$	$\checkmark$
Needs rinse	$\checkmark$	$\checkmark$	$\checkmark$			
Properties						
0.2 µm filtered	$\checkmark$	n/a	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Biodegradable			$\checkmark$	$\checkmark$		
No added dyes and fragrances	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
No Volatile Organic Compounds (VOC)	✓*		<0.5% at use concentration	1		
Non-flammable	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
Shelf life, years	2	3	1	3	sterile - 2 non-sterile - 3	2
USP-compliant components (made with)	n/a	n/a	n/a	$\checkmark$	$\checkmark$	$\checkmark$
Gamma-irradiated available	$\checkmark$				$\checkmark$	$\checkmark$
Testing						
Endotoxin tested	$\checkmark$				$\checkmark$	$\checkmark$
Sterile validated	$\checkmark$				$\checkmark$	$\checkmark$
Lot traceable	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Forms and Packaging						
Ready-to-use solution	$\checkmark$	tablet		$\checkmark$	$\checkmark$	$\checkmark$
Concentrate available	$\checkmark$	tablet	$\checkmark$			
Dilution rate for the concentrate solution	2 oz / gallon	see dilution chart	4 oz / gallon			
Double-bagged bottle/container	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$

\*Low levels of VOC materials are in the product: the quat mixture (860 ppm), EDTA (300 ppm) and nonionic surfactant (400 ppm).





# TexQ<sup>®</sup> Disinfectant

### One-step cleaner and disinfectant 61 kill claims



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TexQ<sup>®</sup> Disinfectant is the latest generation of quaternary ammonium compounds (QACs), **EPA registered one-step cleaner and disinfectant**. It is effective against a broad spectrum of bacteria, viruses and fungi, and inhibits the growth of mold and mildew and their odors when used as directed.

TexQ<sup>®</sup> Disinfectant is available as: **Ready-to-Use spray** for small areas (equipment, surfaces) (TX650) and **Concentrate solution** for large areas (floors, walls) (TX651). Both solutions are 0.2  $\mu$ m filtered. TexQ<sup>®</sup> TX650 is gamma-irradiated to a Sterility Assurance Level of 10<sup>-6</sup> according to AAMI Guidelines.

#### The TexQ<sup>®</sup> Advantage

- **61 Kill Claims** Proven efficacy against the most common cleanroom bacteria, viruses and fungi including MRSA, Pseudomonas, H5N1 and HIV-1 at 2 or 10 minutes contact time.
- **Aspergillus Niger Kill Claim** Most common fungus found in clean room areas.
- **Complex Formulation** Excellent cleaning and disinfecting properties for uniform and complete disinfection of a surface.
- One step cleaner/disinfectant Cleans and disinfects in one step. Saves additional costs for the cleaner. Saves time and labor. Easy to use.
- **TX650 is Gamma-irradiated** Compliant with aseptic environment requirements and USP <797>.
- Free of dyes and fragrance No respiratory irritation safe for the staff, no additional contamination from the vapors.
- Functional use label on bottle Easy documentation and usage control, record the date opened and operator initials.
- **EPA registered** Kill claims provide assurance of efficacy of disinfection.
- **Hazardous drugs removal** TX650 is a part of the Hazardous drugs cleaning protocol\* (USP <800>).
- \* Hazardous drugs cleaning protocol is available upon request

#### Industries

- Biotechnology
- Hospitals, Pharmacies
- USP <797>, USP <800>
- Medical device manufacturing facilities
- Pharmaceutical manufacturing facilities
- Veterinary clinics and laboratories
- Food processing facilities

#### Applications

- Cleaning and disinfecting hard, non-porous surfaces
- Cleaning and disinfecting small surfaces (tables, equipment, isolators, hoods)
- Cleaning and disinfecting large surfaces (floors, walls, ceilings)
- Recommended for use as part of a disinfectant rotation program
- TX650 is recommended for use as part of Texwipe's Hazardous drugs cleaning protocol\*

#### TexQ<sup>®</sup> Products



## **TexQ<sup>®</sup> Kill Claims**

TexQ®
X650 / TX651
ontact Time in
Minutes*

Bacteria	
Community Associated Methicillin Resistant Staphylococcus Aureus	10
Methicillin Resistant Staphylococcus Aureus	10
Burkholderia cepacia	10
Campolybacter jejuni	10
Corynebacterium ammoniagenes	10
Enterobacter aerogenes	3
Enterobacter cloacae	10
Enterobacteriacia w/extended beta lactamase resistance	10
Enterococcus faecalis	10
Enterococcus faecium (Vancomycin resistant)	10
Escherichia coli	10
Escherichia coli (Antibiotic resistant)	10
Escherichia coli 0157:H7	10
Klebsiella pneumoniae	3
Klebsiella pneumoniae (Antibiotic resistant)	10
Legionella pneumophila	10
Listeria monocytongenes	10
Proteus mirabilis	10
Proteus vulgaris	10
Pseudomonas aeruginosa	10
Pseudomonas aeruginosa (Antibiotic resistant)	10
Salmonella enterica	10
Salmonella schottmuelleri	10
Salmonella typhi	10
Serratia marcescens	10
Shigella dysenteriae	10
Shigella flexneri	10
Shigella sonnei	10
Staphylococcus aureus	3
Staphylococcus epidermidis (Antibiotic resistant)	10
Streptococcus pyogenes	10
Vibrio cholerae	10
Xanthomonas axonopodis pv. Citri	10
Xanthomonas campestris pv. Vesicatoria	10

\* Tested according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum (850 ppm active).

	TexQ <sup>®</sup> TX650 / TX651 Contact Time in Minutes*
Viruses	
Avian influenza A Virus (H5N1)	10
Avian Influenza/Turkey/Wisconsin	10
Bovine Viral Diarrheal Virus (BVDV)	10
Canine Coronavirus	10
Canine Distemper	10
Duck Hepatitis B Virus	10
Hantavirus	10
Hepatitis B virus (HBV)	10
Hepatitis C virus (HCV)	10
Herpes Simplex Types 1	10
Herpes Simplex Types 2	10
HIV-1 (AIDS virus)	2
Human Coronavirus	10
Infectious Bovine Rhinotracheitis virus (IBR)	10
Influenza Type A / Brazil	10
Influenza A H1N1 Virus	10
Newcastle Disease virus	10
Porcine Respiratory & Reproductive Syndrome Virus ( <i>PRRSV</i> )	10
Porcine Rotavirus	10
Pseudorabies virus (Rabies Virus)	10
Respiratory Syncytial (RSV)	10
Transmissible Gastroenteritis (TGE)	10
Vaccinia virus (Pox Virus)	10
Fungi	
Aspergillus niger	10
Candida albicans	10
Dactylium dendroides	10
Trichophyton mentagrophytes (Athlete's Foot Fungus)	10
TOTAL	61

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# How Does TexQ<sup>®</sup> Work?

#### Disinfection + Cleaning with One Product



# Surface Compatibility

- Glass, glazed porcelain, glazed ceramic
- Laminated surfaces, Formica®
- Stainless steel, aluminum, metal
- Plexiglass®
- Plastics (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene)
- Vinyl and plastic upholstery
- Sealed granite, sealed marble, sealed limestone, sealed slate, sealed stone

- Sealed terra cotta, sealed terrazzo, vanity tops
- Chrome and vinyl
- Enameled surfaces, painted/finished woodwork
- Washable wallpaper
- External Lenses Vision correction including eyeglasses, protective eyewear, goggles, light lens covers, optical instruments/implements (Not for use on contact lenses.)

	Disinfectants			
	TexQ®	Bleach	Phenolics	Ethanol/Isopropanol
Effective pH	8-11	10-13	1.5 - 12.5	6-8
Cleaning	Good	Poor	Fair*	Poor
Need Precleaning Step	No	Yes	No*	No
Odor	Low	High	High	High
Effectiveness Affected by pH	No	Yes	Yes	No
Organic Soil Tolerance	Good	Poor	Good*	Medium
Hard Water Tolerance	Good	Good	Good	Good
Surface Compatibility	High	Medium	Medium	High
Corrosiveness	Low	High	Medium	Low
Toxicity Category**	III		l or ll	IV
Skin Irritation	Low	High	Medium	Low
Respiratory Irritation	No	High	High	High
Residual Activity	Yes	No	Yes	No
Need Rinse	Yes	Yes	Yes	No
Stability / Shelf Life	Very Good	Very Poor	Good	Good
Cost in Use	Low	Low	Medium	High

\*Depends on product

\*\*EPA Toxicity Categories Require These Warnings:

Signal Word	Category	Oral Lethal Dose <sup>1</sup>
DANGER, POISON (Skull and crossbones)	I Highly toxic	A few drops to a teaspoonful
WARNING	II Moderately toxic	Over a teaspoonful to one ounce
CAUTION	III Slightly toxic	Over one ounce to one pint
CAUTION	IV Relatively non-toxic	Over one pint to one pound
IDecod on a 450 accord accord		

<sup>1</sup>Based on a 150-pound person

#### Shelf Life

For TX650 TexQ<sup>®</sup> Ready-to-use (RTU):

• 2 years (the expiration date is indicated on the product label), even after opening the bottle or spraying from the bottle.

#### For TX651 TexQ<sup>®</sup> concentrate:

- 2 years (the expiration date is indicated on the product label), even after opening the bottle.
- If the concentrate is diluted to RTU in an open container (or bucket), the solution must be used within 24 hours. If, during use, it gets diluted or visibly dirty, it should be replaced.
- If the concentrate is diluted to RTU and transferred to a spray bottle, it is good for up to 2 years (until the expiration date listed on the original TX651 bottle).

#### Disposal

For TX650 and TX651: Dispose of contents and container in accordance with all local, regional, national and international regulations (see Safety Data Sheet, Section 13.)



# **One-Step Cleaning & Disinfection**

#### Save a step with TexQ<sup>®</sup>!

The common cleaning and disinfecting practice includes three steps:

- 1. **Pre-cleaning step** using a cleaning solution for soil and organic contamination removal.
- 2. Disinfectant step using a disinfectant solution for antibacterial action.
- 3. Residue removal step for the disinfectant's left-over removal.

TexQ<sup>®</sup> disinfectant is a one-step disinfectant. That means it **combines the Cleaning and Disinfecting properties** in its complete, chemically balanced formulation. TexQ<sup>®</sup>'s **Cleaning Properties** mean that it **removes soil and organic contamination** (by neutralizing fatty acids, suspending organic contaminants and trapping metal ions) from the surface. Its **Disinfecting Properties** provide **antibacterial action** by disrupting the cell walls of bacteria, viruses and fungi.

Just one application of TexQ<sup>®</sup> disinfectant not only disinfects the surface but also removes soil, organic and other contamination combining the "Pre-cleaning step" and the "Disinfection step" in only one easy step\*. The last step remains the "Residue removal" step\*\*. Having just two steps in the cleaning/disinfection protocol (instead of three) makes the use of TexQ<sup>®</sup> one-step disinfectant solution easier and provides time and labor savings for the operator.





\* For heavily soiled areas or when visible soil is present, the Pre-cleaning step using a cleaning solution is recommended before any disinfectant application, including one-step disinfectants. \*\* For non-product contact surfaces (such as walls, floors, ceilings, etc) the frequency of the residue removal step may be reduced to once a week/month/two months, according to the approved facility's cleaning procedure.

# **Use Directions**

TexQ® is a one-step disinfectant which can clean and disinfect in one step unless visible soil is present.

10 min. 7<u>7</u>771

contact time.

#### Use directions for TexQ<sup>®</sup> TX650.



Remove the visible soil from the surface, if present; otherwise, start with the next step.





Spray 6"-8" from the surface until it is completely wet.



Spray a dry wiper.



Remove any remaining residue with an isopropyl alcohol (IPA) pre-wetted wiper.

#### Wipe the surface.

#### To prepare a TX651 solution in a bucket.



Fill the bucket with the specified amount of water (per SOP).



Leave the surface wet for the required 10 minute

Measure the TexQ<sup>®</sup> disinfectant TX651 using the supplied (included) beaker, 2 oz. per gallon of water.



Add the concentrate in the bucket and mix. Your solution is good for 24 hours. Replace the solution sooner if it becomes visibly dirty.

#### Use directions for TexQ® TX651.



Mop the surface.



Leave the surface wet for 10 minutes.



Remove the residue using water, as needed.





# **TexTab**<sup>™</sup>

# The Bleach Alternative in an Effervescent Tablet Form Kills *C. Difficile* spores in just 4 minutes



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# Why TexTab<sup>™</sup>?

TexTab<sup>™</sup> TX6460 is an **EPA-registered** broad spectrum and sporicidal disinfectant in an effervescent tablet form. Each tablet contains 48.21% of sodium dichloro-s-triazinetrione. This is equivalent to 31.1% of available chlorine.

Unique, single dose, **fizzing tablet dissolves fast and completely,** delivering an accurate strength chlorine solution every time, eliminating "measure and pour" guesswork. Refer to dilution chart for different dilution rates and available chlorine concentrations to prepare **sanitizing, bactericidal or sporicidal solution** strengths. Use anywhere liquid bleach is used.

TexTab<sup>™</sup> is effective against a broad spectrum of pathogenic organisms including *C. diff* spores, mycobacteria, Gram-negative and Gram-positive bacteria, antibiotic-resistant bacteria, enveloped and non-enveloped viruses and fungi with total number of **50 EPA-registered kill claims**. Kills *C. diff* spores in 4 minutes. Kills HIV-1, Hepatitis A and Hepatitis B viruses on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids. Kills mycobacteria in 4 minutes. Kills Norovirus in 1 minute with no pre-cleaning required.

#### The TexTab<sup>™</sup> Advantage

- Kills Clostridium difficile (C. diff) spores in just 4 minutes – Half the contact time required for most bleach solutions
- **Convenient effervescent tablets** Simple to use for preparing a fresh solution, when needed. Exact dosage tablet delivers an accurate strength solution every time. Eliminates the risk of concentrated bleach spills.
- Different dilution rates for different disinfection needs – Sanitization and disinfection strength – for everyday use. Sporicidal strength – for weekly/bi-weekly use.
- **Safe for surfaces and users** Produces a solution with a pH of 6 to 7 (neutral) that does not damage finishes or equipment. Not considered a hazardous solution less irritating for users than bleach. Less corrosive than bleach. Less odor than bleach.
- **Compact Packaging** 1 canister of 256 tablets is equivalent to 8 gallons of concentrated bleach. Storage takes up less shelf space. Less packaging to dispose of after the product is used. Reduced shipping costs.
- Stable in Storage Three-year shelf-life for tablets (versus one year for concentrated bleach). Seven-day shelf-life for diluted solutions in closed containers (versus 1 day for diluted bleach).

#### Industries

- Pharmaceutical, Medical Device and Cosmetic Manufacturing Facilities
- Biotechnology
- Pharmacies and Compounding Pharmacies
- **Medical and Dental** Hospitals, nursing homes, medical and dental offices and clinics, operating rooms, isolation wards, and medical research facilities
- **Veterinary** Veterinary clinics, animal life science laboratories, kennels, breeding and grooming establishments, pet animal quarters, pet shops, and other animal care facilities
- **Food** All types of hard, non-porous equipment and utensils used in food processing and canning plants, bottling plants, breweries, fish processing plants, meat and poultry processing plants, milk handling and processing plants, stores, restaurant and institutional dining establishments

#### Applications

- Disinfecting any hard, non-porous, inanimate surface (see the surface compatibility table on page 17)
- Replacing liquid bleach solutions in all applications
- Using as part of a disinfectant rotation program as a bactericidal disinfectant for everyday use and/or a sporicidal disinfectant weekly or biweekly. Use the dilution chart for different dilution rates (page 16)
- Pre-cleaning gross soil before disinfection
- Cleaning, sanitizing and disinfecting small work areas as well as large areas (floors, walls, ceilings)
- Fogging

#### TexTab<sup>™</sup> Products

Number	Description	Packaging
TX6460	TexTab™ Disinfectant Tablets	256 tablets/bottle – 2 bottles/case

# Efficacy

**TexTab**<sup>™</sup> efficacy against the microbes and spore claimed on the product label has been demonstrated in tests that are prescribed and regulated by the US Environmental Protection Agency (US EPA) under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Performance	Sanitization	Bactericidal Disinfection	Bactericidal Disinfection	Sporicidal Disinfection	Tb Disinfection
Available chlorine concentration	100 ppm	538 ppm	1076 ppm	4306 ppm	5382 ppm
Dilution rate	1 tab/10 gal water	1 tab/2 gal water	1 tab/1 gal water	4 tab/1 gal water	5 tab/1 gal water
Sporicidal kill claims			, i i i i i i i i i i i i i i i i i i i		
Clostridium difficile spores				4	
Bactericidal kill claims					
Mycobacterium bovis (Tb)					4
Acinetobacter baumannii				4*	
Actinobacillus pleuropneumoniae			10		
Bordetella bronchiseptica (rhinitis)			10		
Brachyspira (Treponema/Serpulina) hyodysenteriae (swine dysentery)			10		
Clostridium perfringens USDA			10		
Enterococcus faecalis Vancomycin Resistant (VRE)			10		
Escherichia coli 0157:H7			10		
Klebsiella pneumoniae			10		
Klebsiella Pneumoniae Carbapenan resistant				4*	
Pseudomonas aeruginosa		10		4*	
Salmonella enterica	1	10		4*	
Staphylococcus aureus	1	10		4*	
Staphylococcus aureus Methicillin resistant (MRSA)			10		
Staphylococcus aureus Gentamicin resistant (GRSA)			10		
Staphylococcus epidermidis			10		
Streptococcus dysgalactiae			10		
Streptococcus uberis			10		
Virucidal kill claims					
African swine fever			30		
Avian influenza			10		
Avipox (fowl pox)			30		
Canine Distemper virus			10		
Canine Parvovirus			10		
Feline Calicivirus			10		
Gumboro disease (Infectious bursal disease virus (IBDV))			10		
Hepatitis B (HBV)			10		
Hepatitis A (HAV)			10		
Herpes simplex virus type 1			10		
HIV-1			10		
Infoctious Capino honatitic			10		
Influenza H1N1		10	10		
Newcastla Disease Virus		10	10		
Norovirus			10	1*	
Poliovirus tvne 1			10	1	
Porcine narvovirus			10		
Pseudorabies			10		
Respiratory syncytial virus		10	10		
Runting & Stunting virus (tenosynovitis)		10	10		
Swine Vesicular disease			30		
Teschen/Talfan disease			10		
Transmissible gastroenteritis (TGE)			30		
Fungicidal kill claims					
Trichophyton mentagrophytes			10		

\*no pre-cleaning required

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# How TexTab<sup>™</sup> Differs from Traditional Bleach

The active ingredient in **TexTab**<sup> $\mathrm{M}$ </sup> is sodium dichloro-s-triazinetrione. The active ingredient in **bleach** is sodium hypochlorite.

While **TexTab**<sup>™</sup> does provide free available chlorine for disinfection purposes, it is not the hypochlorite ion in solution like traditional bleach. There are significant differences that need to be understood to differentiate the two product types.

The active ingredient in bleach, sodium hypochlorite, is stabilized with caustic, and as a result, solutions made from bleach have a pH of 11 or higher. On the other hand, solutions made with **TexTab**<sup>TM</sup>, where the active ingredient is sodium dichloro-s-triazinetrione, have a pH of ~ 6.5 (neutral) when dissolved in water. The lower pH explains the **safety and less corrosiveness benefits of TexTab**<sup>TM</sup> **solutions**.

Once in solution, sodium dichloro-s-triazinetrione initially releases only 50% of its total chlorine content as free available chlorine (FAC), which is thought to be the active disinfection agent. As the free available chlorine gets consumed, because of sodium dichloro-s-triazinetrione's chemical structure, it continues to release the remaining chlorine to maintain the free available chlorine level in the solution, hence continued disinfection power. Sodium hypochlorite, on the other hand, releases all of its chlorine content as free available chlorine all at once. So once it is consumed, there is no replenishment. This explains the **longer shelf life benefit of the TexTab**<sup>™</sup> **use solutions**.

Furthermore, free available chlorine exists in two forms: hypochlorous acid (HOCI) and the hypochlorite ion (OCI<sup>-</sup>). Studies show that hypochlorous acid has four times more disinfection power than the hypochlorite ion. It is thought that this is because HOCI is more similar to the water molecule (HOH) ionic character than the hypochlorite ion, and it is easier for it to penetrate through the negatively charged cell wall than the hypochlorite ion (OCI<sup>-</sup>). Ninety percent of the free available chlorine produced by sodium dichloro-s-triazinetrione at pH ~6.5 exists in hypochlorous acid form. Less than 3% of the free available chlorine produced by sodium hypochlorite (bleach) at a pH 11 or higher exists in the hypochlorous acid form. This difference explains the **effectiveness benefit of TexTab**<sup>™</sup> (shorter kill **time for the sporicidal action)** over a bleach solution.

Although the final use solutions are used as disinfectant and sporicides, there are no equivalent concentrations for **TexTab**<sup> $^{\text{TM}}$ </sup> and traditional bleach solutions. Comparisons must be made by use conditions and kill claims for each product only.

#### These Differences Favor Unique TexTab<sup>™</sup> Advantages:

- Solutions of **TexTab**<sup>™</sup> (sodium dichloro-s-triazinetrione) are far less corrosive than bleach solutions due to their neutral pH.
- Has longer lasting, free available chlorine in reserve. Bleach solutions do not. Diluted solutions of **TexTab**<sup>™</sup> generate killing power for a week (7 days). Diluted solutions of bleach become inactive after a day.
- Delivers more potent disinfection power, in the form of hypochlorous acid, than bleach solutions.



# **TexTab<sup>™</sup> Versus Bleach Comparison**

	Bleach	TexTab <sup>™</sup> TX6460	
Effective pH	10 – 13	6 – 7	
Packaging and delivery	Heavy, concentrated solution	Bulk packed tablets	
Use convenience	Must be stored, diluted, mixed, and filtered	Made at point-of-use	
Stability	Degrades over time (may lose 20% of its activity in 6 months after opening) The bleach solution concentration should be confirmed before use	Stable, fresh solution No confirmation of concentration needed	
Shelf Life	6 - 12 months for concentrate 1 day for mixed solutions	3 years for tablets 7 days for mixed solutions (in closed containers)	
Odor	Strong	Moderate	
Corrosion potential	High	Low	
Hazard level: Eye	High (Severe irritant or may cause damage)	Low Irritant	
Hazard level: Skin	High (Severe irritant or may cause damage)	Low Irritant	
Hazard level: Respiratory system	High (Severe irritant or may cause damage)	Irritant	
DOT Hazard Classification	Corrosive, Class 8 at 12% strength	The tablets and use-solutions are not classified as hazardous under the DOT regulations	
Bactericidal concentration	2,400 – 5,000 ppm	538 – 1076 ppm	
Sporicidal concentration	>5,000 ppm	4,306 ppm	

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## **Disinfecting with TexTab**<sup>™</sup>

#### Pre-Cleaning Surfaces Before Disinfection

- All treated surfaces must be freed of all visible soil and precleaned with a cleaning solution (soap or detergent). In some situations, a rinse of the cleaning solution with potable water is needed.
- The pre-cleaning process may be also accomplished with an IPA (isopropyl alcohol) pre-wetted wiper or a **TexTab**<sup>™</sup> TX6460 solution.
- For the 4306 ppm dilution application no pre-cleaning is required – **TexTab**<sup>™</sup> acts as a one-step disinfecting and cleaning agent. Visible soil still must be removed.

#### Dilution chart for solution preparation

Solution ppm (mg/L) Available Chlorine	Tablets	Water (gallons)
100	1	10
538	1	2
1076	1	1
4306	4	1
5382	5	1
Sanitizer		

Bactericidal – kills bacteria and viruses

- Sporicidal kills *C. Diff* spores
- Kills Mycobacterium (Tb)

#### Shelf Life of Ready-to-Use Solution

- In closed containers, e.g., spray bottles 7 days
- In open containers, e.g., buckets 1 day
- When the solution in the bucket becomes diluted or soiled, prepare a fresh solution.

#### Disinfecting Application Methods (may be applied by)

Wiper

- Mop
- Sponge
- Iviop
- Brush
- Foaming/fogging equipment Coarse trigger sprayer

#### Sanitizing Application Methods

- **Pressure method** for closed systems, i.e. weigh tanks, coolers, short-time pasteurizers, pumps, homogenizers, fillers, sanitary piping and fittings, and bottle and can fillers.
- Spray/pressure spray and fogging methods for large, non-porous surfaces such as batch pasteurizers; holding tanks, weigh tanks, tank trucks and cars, vats, tile walls, ceilings, and floors.
- General rinse method for plant floors, walls and ceilings, and also controlling odors in refrigerated areas and drain platforms.

#### **Residue Removal**

- All treated equipment and surfaces that will contact food, feed, drinking water or critical products must be rinsed with potable water before reuse.
- Other surfaces (i.e., floors, walls, ceilings), including animal housing facilities, should be allow to air dry before reuse.
- **TexTab**<sup>™</sup> is a non-rinse sanitizer at 100 ppm dilution rate for all surfaces except ones in contact food, feed, drinking water or critical products.

#### Stability

A stability study showed that **TexTab**<sup>m</sup> solutions, whose concentrations ranged from 100 to 10,000 ppm active chlorine, retained the required chlorine activity in storage for **7 days** in a closed container at room temperature out of direct sunlight. The solution of 1,500 ppm active chlorine remained stable for 6 days.

Based on this study, **TexTab**<sup>™</sup> solutions can be used for up to 7 days if stored in a closed container such as a spray bottle at room temperature out of direct sunlight. The solution should be replaced each week with a freshly made solution.

The study report is available as a Texwipe TechNote titled **"TexTab™ TX6460 Solution Decay Study**."

# **Surface Compatibility**

**TexTab**<sup>™</sup> may be used on hard, non-porous surfaces such as: hospital beds, examining tables, operating tables, medical equipment surfaces, counters, walls, ceilings, shower stalls, bathroom fixtures, kennel/cage floors, examination tables,

athletic mats, exercise equipment, and locker rooms areas, whirlpools, Hubbard tanks, food preparation and storage areas and other.

At the dilution rate of 2,000 mg/l (2,000 ppm) of active chlorine TexTab<sup>™</sup> is compatible with the following surfaces:

Plastics	Compatibility
ABS	A
CPVC	A
Hytrel®	А
HDPE	A
LDPE	A
Noryl®	А
Polycarbonate	A
Polypropylene	A
PPS	A
PTFE	А
PVC	A
PVDF	A

Elastomers	Compatibility
Nitrile (Buna N)	A
EPDM	A
Hypalon®	A
Kel-F®	A
Santoprene®	A
Silicone	В
Tygon®	A
Viton®	A

Metals	Compatibility
SS 304	В
SS 316	A
Aluminum	A
Brass	В
Bronze	В
Carbon Steel	С
Cast Iron	С
Hasteloy C®	A
Titanium	A

Non Motolo	Compatibility
	Company
Carbon Graphite	A
Ceramic Al <sub>2</sub> O <sub>3</sub>	А
Ceramic Magnet	А

At the dilution rate of 200,000 mg/l (200,000 ppm) of active chlorine TexTab<sup>™</sup> is compatible with the following surfaces:

Plastics	Compatibility
ABS	В
Acetal	D
CPVC	A
Ероху	С
Hytrel®	A
HDPE	A
LDPE	A
Noryl®	A
Nylon	D
Polycarbonate	С
Polypropylene	A
PPS	A
PTFE	A
PVC	А
PVDF	A

Elastomers	Compatibility
Nitrile (Buna N)	В
EPDM	В
Hypalon®	A
Kel-F®	A
Natural rubber	С
Neoprene	С
Santoprene®	A
Silicone	В
Tygon®	С
Viton®	A <sup>2</sup>

Metals	Compatibility
SS 304	С
SS 316	С
Aluminum	D
Brass	D
Bronze	С
Carbon Steel	D
Carpenter 20	D
Cast Iron	D
Hasteloy C®	А
Titanium	С

Non Metals	Compatibility
Carbon Graphite	В
Ceramic Al <sub>2</sub> O <sub>3</sub>	A
Ceramic Magnet	A

#### Explanations of Ratings – Chemical Effect

- A = Excellent
- **B** = **Good**, Minor effect, slight corrosion or discoloration
- **C** = **Fair,** Moderate effect, OK for short term use. Not recommended for continuous use. Softening, loss of strength, swelling may occur
- **D** = **Severe Effect**, not recommended for ANY use

# **Preparation of TexTab<sup>™</sup> Sporicidal Dilution**

#### In a Bucket



Fill the bucket with the specified amount of water (per SOP).



Add 4 tablets per gallon of water to make a sporicidal dilution. See the dilution chart on page 16.



Wait while the tablets dissolve (2-3 minutes).

# **Use Directions**



Mop the surface.



To kill *Clostridium difficile* spores, leave the surface wet for 4 minutes.



Remove the residue with sterile water, if needed.

# **Preparation of TexTab<sup>™</sup> Sporicidal Dilution**

#### In a Spray Bottle



Fill the measuring beaker with 32 oz of water and add 1 tablet of TexTab<sup>TM</sup> to make a sporicidal dilution. (There are 4 tablets per gallon needed for the sporicidal dilution. One tablet will be needed to make a sporicidal dilution in 32 oz spray bottle)



Wait while the tablet dissolves (about 2-3 minutes).



Pour the solution into a spray bottle.



The sporicidal solution can be used for up to 7 days.

# **Use Directions**



Remove any visible soil or spills from the surface using a sterile wiper: dry or pre-wetted with 70% IPA / 30% DIW or TexTab<sup>™</sup> solution itself.



Wipe the surface with a wiper pre-wetted with TexTab<sup>™</sup> sporicidal solution.



To kill *Clostridium difficile* spores, leave the surface wet for 4 minutes.



Remove the residue with a sterile 70% IPA pre-wetted wiper.



# **TexCide**<sup>™</sup> Kills *Clostridium difficile (C. diff)* in just 2 minutes One-step sporicidal cleaner and disinfectant



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# Why TexCide<sup>™</sup>?

TexCide<sup>™</sup> TX690 is an effective **EPA registered** 5.9% peroxyacetic acid/27.3% hydrogen peroxide-based sporicidal disinfectant with fast efficacy against *Clostridium difficile (C. diff)* spores.

TexCide<sup>™</sup> is a concentrated, broad-spectrum, **one-step** disinfectant cleaner, sanitizer and deodorizer effective against spores, bacteria, viruses and fungi with just 1-2 minute contact time. The 8 oz. (250 ml) measuring beaker makes the dilution process easier.

#### Features & Benefits

- Fast sporicidal action Kills Clostridium difficile spores in 2 minutes.\*
- · Bactericidal, virucidal, and fungicidal with a contact time of 2-5 minutes.\*
- One-step disinfectant and cleaner cleans, disinfects and deodorizes in one labor saving step.
- No pre-cleaning step is required \*\* effective in the presence of 5% organic serum load. Saves additional costs incurred from a pre-cleaning step (cleaning product cost, time, etc.).
- EPA registered.
- Compatible with stainless steel and other 11 surfaces.
- No special water requirements for dilution effective in water up to 400 ppm hardness.
- No rinsing required when used on floors, walls and ceilings.
- Convenient to use 16 oz. bottle of concentrate makes 4 gallons of use solution.
- Fragrance free.
- Non-flammable.
- Measuring beaker included makes the dilution process easier.
- Lot traceable.

\*At the dilution rate 4 oz. per gallon of water (see the kill claims on pg 23) \*\*If no visible soil is present

#### **Typical Properties**

- Water solubility Complete
- Physical form
- Color
- pH (25°C)
- Dilution recommendations:
  - 4 oz. per gallon of water for sporicidal/bactericidal performance 2 oz. per 6 gallons of water for sanitizing performance

Liquid

2.65

Colorless

#### Industries

- Pharmaceutical
- Medical Device
- Veterinary Clinics
- USDA Inspected Food-Processing Facilities
- Pharmacies and Compounding Pharmacies
- Hospitals and Healthcare Facilities

#### Applications

- Cleaning, sanitizing and disinfecting hard, non-porous surfaces
- Cleaning, sanitizing and disinfecting small surfaces (e.g., tables, equipment, isolators, hoods)
- Cleaning, sanitizing and disinfecting large surfaces (e.g., floors, walls, ceilings)
- Recommended for use as part of a disinfectant rotation program as the sporicidal agent
- Fogging

#### Surface compatibility

- Finished floors
- Enameled surfaces
- Desks
- Glass
- Glazed porcelain
- Stainless steel
- Medical equipment surfaces
   Plastic & painted surfaces
- Vinyl

#### Not recommended for use on

- Copper Brass
- Granite Marble
- Zinc Unsealed/uncoated marble or terrazzo floors

#### TexCide<sup>™</sup> Products

- Laboratories

Biotechnology

Food Handling

- Chrome Examination tables
- Glazed ceramic
- Laminated surfaces

- Workstations

Aluminum

# **TexCide<sup>™</sup> Kill Claims**

Performance	Sanitization	Sporicidal/ Bactericidal Disinfection
Dilution rate	2 oz/ 6 gal. water	4 oz/ 1 gal. water
Active PAA (PerAcetic Acid)	154 ppm	1844 ppm
Sporicidal kill claims		
Clostridium difficile		2
Bactericidal kill claims		
Acinetobacter baumannii		2
Aeromonas hydrophila	1	
Bordetella pertussis		2
Clostridium perfringens - vegetative	1	
Enterococcus faecalis Vancomycin Resistant (VRE)		2
Enterobacter sakazakii	1	
Escherichia coli	1	2
Escherichia coli 026:H11	1	
Escherichia coli 045:K-:H-	1	
Escherichia coli 0103:K.:H8	1	
Escherichia coli 0111:H8	1	
Escherichia coli 0121:K-:H10	1	
Escherichia coli 0157:H7	1	
Klebsiella pneumoniae	1	2
Klebsiella pneumoniae Carbapenem Resistant		2
Listeria monocytogenes	1	
Proteus mirabilis		2
Pseudomonas aeruginosa		2
Salmonella enterica	1	2
Salmonella enterica serotype enteritidis	1	
Salmonella typhi	1	
Shigella dysenteriae	1	
Shigella sonnei	1	
Staphylococcus aureus	1	2
Staphylococcus aureus Methicillin Resistant (MRSA)		2

Performance	Sanitization	Bactericidal Disinfection
Dilution rate	2 oz/ 6 gal. water	4 oz/ 1 gal. water
Active PAA (PerAcetic Acid)	154 ppm	1844 ppm
Bactericidal kill claims continued		
Staphylococcus aureus Community Acquired Methicillin Resistant (CA-MRSA)		2
Staphylococcus aureus Vancomycin Intermediate Resistant (VISA)		2
Streptococcus pneumoniae		2
Streptococcus pyogenes		2
Xanthomonas axonopodis (Citrus Canker)	1	
Yersinia enterocolitica	1	
Virucidal kill claims		
Adenovirus Type 5		2
Canine Parvovirus (CPV)		5
Hepatitis B Virus		5
Hepatitis C Virus		5
Herpes Simplex Virus Type 1		2
Herpes Simplex Virus Type 2		2
Human Immunodeficiency Virus Type 1 (HIV-1)		2
Influenza A Virus		2
Murine Norovirus (MNV-1)		2
Norovirus		2
Respiratory Syncytial Virus (RSV)		2
Rhinovirus Type 37		2
Rotavirus		2
Vaccinia Virus		2
Fungicidal kill claims		
Candida albicans		2
Trichophyton mentagrophytes (Athlete's foot fungus and a cause of Ringworm)		2
TOTAL	5	2

Tested according to the AOAC Use Dilution test method on hard, non-porous surfaces.

# How does $TexCide^{TM}$ kill spores?



23

# **TexCide<sup>™</sup> Versus the Competition**

PRODUCT	TexCide <sup>™</sup> TX690	Spor-Klenz® Concentrate Sterilant	Spor-Klenz® RTU	Decon-Spore® 200 Plus	SporGon®	PeridoxRTU®
RTU or Concentrate	Concentrate	Concentrate	RTU	Concentrate	RTU	RTU
Sporicidal contact time, minutes	2	No specific spore kill claim on the product label	30	3	180	3
Bactericidal	2	10	up to 10	10	up to 15	up to 5
Virucidal	2	up to 11 hours	up to 25	10	5	up to 3
Fungicidal	2	No kill claims	5	No kill claims	5	1
Sanitization	1	up to 10	5	up to 5	0	30 sec
Total number of disinfecting kill claims	32	6	19	10	20	52
Product formulation	Hydrogen Peroxide 27.3% Peroxyacetic acid 5.9%	Hydrogen Peroxide 22% Peroxyacetic acid 4.5%	Hydrogen Peroxide 1% Peroxyacetic acid 0.08%	Hydrogen Peroxide 27.5% Peroxyacetic acid 5.8%	Hydrogen Peroxide 7.35% Peroxyacetic acid 0.23%	Hydrogen Peroxide 4.4% Peroxyacetic acid 0.23%
Available sizes	16 oz (12/case)	32 oz (4/case)	29 oz (4/case)	various	1 gallon (4/case)	32 oz (6/case)

#### TexCide<sup>™</sup> Benefits:

- Has the **shortest sporicidal contact time** and one of the largest total number of kill claims vs the compared products
- The bactericidal, virucidal and fungicidal kill times are the same as the sporicidal kill time (2 min) for **more efficient use of disinfection time**
- Concentrated solution is more **cost effective** than the RTU

# Products having no EPA-registered sporicidal kill claims on the label:

- Spor-Klenz<sup>®</sup> Concentrate (Steris)
- Accel® Tb, Accel® Concentrate (Contec)
- Steri-Perox<sup>®</sup> (Veltek)
- Clorox Healthcare® Hydrogen Peroxide
- Cleaner Disinfectant (Clorox)
- Hypo-Chlor® (Veltek)
- Sporicidin<sup>®</sup> (Contec)



# **Preparation of TexCide<sup>™</sup> Solution in a Bucket**



Fill the bucket with the specified amount of water (per SOP).



Measure TexCide<sup>™</sup> disinfectant TX690 using the supplied (included) beaker, 4 oz. per each gallon of water.



Add the disinfectant in the bucket and mix.



If four gallons of water is used, the whole 16 oz bottle may be added.

## **Use Directions**



Mop the surface.



To kill *Clostridium difficile* spores, leave the surface wet for 2 minutes.



Remove the residue using water, if needed.





# TexP

# Non-Sterile Hydrogen Peroxide Solutions

Ready-to-Use | Non-flammable | No VOC



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Applications	.29

# Why TexP<sup>™</sup>?

#### Hydrogen Peroxide, Non-Sterile

Texwipe's<sup>®</sup> TexP<sup>™</sup> (Hydrogen Peroxide) cleaning solutions are developed for use with cleaning rotation cycles to maintain a clean environment. TexP<sup>™</sup> offers **no VOCs and is nonflammable**, making it safer for your personnel and regulatory compliance.

TexP<sup>TM</sup> leaves **no residue**, making it ideal for residue removal with disinfectants such as TexQ<sup>®</sup>, TexTab<sup>TM</sup> and other formulations. It offers a low toxicity profile and is noncorrosive on most surfaces. TexP<sup>TM</sup> is completely biodegradable into water and oxygen.

TexP<sup>TM</sup> is offered in **two ready-to-use concentrations** – **4% and 7.5%** – and both are available in 16 oz. spray (suitable for small areas) and 1 gallon (ideal for large volume applications) bottles. All TexP<sup>TM</sup> products are individually lot-coded for ease of traceability and quality control.

#### TexP<sup>™</sup> Advantages

- **Convenient ready-to-use solutions** require no mixing or activating.
- **Non-flammable** may be used in high flammability risk environments.
- No VOCs reduces VOC regulatory and compliance concerns.
- No residue may be used for disinfectant removal.
- **Safe for use** low toxicity profile for staff and noncorrosive on most common surfaces.
- **Biodegradable** completely decomposing into water and oxygen.

#### TexP<sup>™</sup> Products

Solution	Number	1	Description	Packaging
4%	TX684		4% hydrogen peroxide Ready-to-use Non-sterile solution	16 oz. spray bottle
nyarogen peroxide	TX684G 4% hydro Ready-to Non-steri	4% hydrogen peroxide Ready-to-use Non-sterile solution	1 gallon bottle	
7.5%	TX687	1000 There	7.5% hydrogen peroxide Ready-to-use Non-sterile solution	16 oz. spray bottle
peroxide	TX687G		7.5% hydrogen peroxide Ready-to-use Non-sterile solution	1 gallon bottle

# 4% and 7.5% Hydrogen Peroxide

#### Industries

- Pharmaceuticals
- Biologics and Biotechnology
- Medical Device
- Compounding Pharmacy
- Cosmetics
- Health Care
- Veterinary
- Food and Beverage
- Nutraceutical
- Microelectronics
- Semiconductor

#### Applications

- Cleaning small (tables, equipment) surfaces
- Cleaning large (floors, walls, ceilings) surfaces
- Removing residues after disinfectant application
- Surface cleaning and residue removal
- Areas with flammability and VOC concerns
- Surfaces not compatible with IPA (i.e., Plexiglass)
- Cleaning gloves, notebooks, phones or any other item entering the cleanroom
- Wipe down for pass-through to controlled environments
- Ideally suited for use with Texwipe cleanroom wipers









When Cleaning is Critical



# **IPA Solutions**

Texwipe Non-sterile and Sterile 70% Isopropanol solutions contain 70% **USP-grade** Isopropanol (Isopropyl Alcohol) and 30% **USP purified water** (by volume).

100% Isopropanol solutions contain **100% Semiconductor grade** Isopropanol (Isopropyl Alcohol).

#### Features & Benefits

- Filled in an ISO Class 5 environment.
- $\bullet~0.2~\mu m$  filtered and packaged into cleaned containers.
- Double-bagged in solvent-safe bags.
- Evaporates leaving low residue, no rinse required.
- Trigger sprayer bottles are fully assembled and ready-to-use.
- Trigger sprayers offer stream delivery or coarse spray.
- 5 color indicator dots included for area identification.
- $\bullet\,$  Meets USP <797> and USP <800> requirements.
- Individually lot coded for ease of traceability and quality control.

#### Applications

- Surface cleaning and residue removal.
- Cleaning gloves, notebooks, phones or any other item entering the cleanroom.
- Wipe down for pass-through to controlled environments.
- Ideally suited for use with Texwipe cleanroom wipers.

#### Industries

- Aerospace
- Biologics
- Compounding Pharmacies
- Facilities Maintenance
- Laboratory
- Microelectronics
- Printing/Graphics
- USP <797> / USP <800>

#### **Sterility Assurance**

- Certificate of Compliance, Analysis and Irradiation attached to each case.
  - » Gamma irradiated to a Sterility Assurance Level of 10<sup>-6</sup> according to AAMI Guidelines.
  - » Sterile Validation Documentation available upon request.
  - » TX3270, TX3273, TX3290, TX8270 filled using USP-grade IPA.

#### **Cleanroom Environment**

Non-Sterile

• ISO Class 5 - 8

• EU Grade B – D

- Class 100 100,000
- ISO Class 3 8
  Class 1 100,000

Animal Laboratory

Data Storage

Medical Device

Pharmaceutical

Semiconductor

Industrial

Cleanroom Design/Build

• EU Grade A – D

Sterile

#### Shelf Life

- Non-Sterile 3 years from date of manufacture
- Sterile 2 years from date of manufacture

## **IPA Products**

IPA %	Sterile	Number		Description	Packaging
70% Isopr	opyl Alcoho	I	-		
70%	•	TX8270		70% Isopropyl Alcohol Trigger Spray 8 fluid ounces (237 mL) Sterile	12 bottles per case
70%	•	TX3270		70% Isopropyl Alcohol Trigger Spray 16 fluid ounces (473 mL) Sterile	12 bottles per case
70%		TX167	T AND	70% Isopropyl Alcohol Trigger Spray 16 fluid ounces (473 mL) Non-Sterile	12 bottles per case
70%	•	TX3273	127	70% Isopropyl Alcohol Trigger Spray 32 oz. fluid ounces (946 mL) Sterile	12 bottles per case
70%	٠	TX3290	TX 3200 The	70% Isopropyl Alcohol 1 gallon (3.8 liters) Sterile	4 bottles per case
70%		TX117	TRANS THE PARTY OF	70% Isopropyl Alcohol 1 gallon (3.8 liters) Non-Sterile	4 bottles per case
100% Isop	ropyl Alcoh	ol	la c		
100%		TX161	12101	100% Isopropyl Alcohol Trigger Spray 16 fluid ounces (473 mL) Non-Sterile	12 bottles per case
100%		TX111		100% Isopropyl Alcohol 1 gallon (3.8 liters) Non-Sterile	4 bottles per case

D

# **Sterile** 70% Denatured Ethanol Solutions

**For Critical Cleaning Applications** 



Sterile 70% Denatured Ethanol 70% Denatured Ethanol 30% USP Purified Water

#### Solutions

The filtered through 0.2 micron filter samma irradiated to a sterility level of 10<sup>-4</sup> Samity of contents asured if package is unopened or undamaged here.

ontents: 16 ounces (473 mL)

wipe.

T

0.201013 106983 33017

Her

NRA





Pre-filtered through 0.2 micron filter Gamma irradiateri to a starility level of 10.4 Sterlity of contents asured if package is unopened or undamaged Contents asured if package is unopened or undamaged

Contents: 32 ounces (946 mL)

Remerville No 27284 USA www.texwipe.com

# 70% Denatured Ethanol

Sterile, ready-to-use 70% denatured ethanol (EtOH) solution designed especially for cleanroom use. Filtered to 0.2 µm, individually double-bagged and gamma-irradiated to ensure sterility. Made using **USP components** and packaged in a ISO Class 5 environment.

#### Features & Benefits

- Filled in an ISO Class 5 environment; 0.2 µm filtered
- Individually double bagged and gamma irradiated to a Sterility Assurance Level of 10<sup>-6</sup> according to AAMI guidelines
- Evaporates leaving extremely low residue
- Adjustable trigger spray which allows the liquid to be dispensed as either a jet or spray
- Fully lot traceable. Each lot tested for endotoxins
- Each shipment is supported by documentation: Certificate of Irradiation, Certificate of Compliance and Analysis
- SDS and Sterility Validation documents available

#### Industries

- Microelectronics
- Biologics
- Pharmaceuticals
- Semiconductor
- Medical Device
- Compounding Pharmacies

#### **Applications**

- Surface cleaning and residue removal purposes
- Use on gloved hands in sterile suites
- Wipe down for pass through to controlled environments
- · Ideally suited for use with sterile cleanroom wipers

#### **Sterility Assurance**

- Gamma-irradiated to a sterility level of 10<sup>-6</sup> with independent QC audits to ensure sterility
- Each lot tested for endotoxins
- Lot traceable

- Lot-specific information on each shipment simplifies record keeping:
  - » Certificate of Processing confirming radiation dosage
  - » Certificates of Compliance & Analysis

#### 70% Denatured Ethanol Products

Number	7	Description	Packaging
TX3267		Sterile 70% Denatured Ethanol	16 oz. trigger spray bottle (473 mL) / 12 polybottles per case
TX3265	1/1	Sterile 70% Denatured Ethanol	32 oz. trigger spray bottle (946 mL) / 12 polybottles per case



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# CrushTube Swab 91% IPA / 9% DIW

36 CrushTube™ Swab | texwipe.com

# CrushTube<sup>™</sup> Swab

Texwipe's CrushTube<sup>™</sup> system includes a 100% polyester (hydroentangled) nonwoven material head attached to an internal vial containing 91% IPA / 9% DIW solution, which is enclosed in a protective casing.

When the internal vial is crushed, the head becomes saturated with the 91% IPA / 9% DIW solution for point-of-use application.

Individually packaged in cleanroom compatible material. Lot coded for traceability and quality control.

#### Features & Benefits

- IPA solution is separated from head until activated
- **Gently crush** the vial to release the IPA and saturate the brush/tip
- **Precision spot cleaning**, no extra container of solvent needed
- Individually packaged to minimize storage need, easy to transport and use

#### Applications

- Solvent cleaning and maintaining of ion emitter tips
- Cleaning of grooves, tracks, slots and other small spaces
- Removing adhesive buildup
- Solvent cleaning sensitive surfaces such as optical assemblies

#### Industries

- Automotive
- Biologics
- Food Manufacturing
- Microelectronics
- Pharmaceuticals
- Semiconductor

#### CrushTube<sup>™</sup> Products



For More Swab Products, See our <u>Swabs Brochure</u> online (this is a link) at texwipe.com.





# APPENDIX

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### **Disinfectant Classification**

	lsopropyl Alcohol	Chlorine Compounds, Bleach Sodium Hypochlorite 5.25% (bleach concentrate)	Phenolics	Quaternary Ammonium Compounds (QACs)	Oxidizing Disinfectants, Hydrogen peroxide
Description	Variable activity against some bacterial and fungal species. Bactericidal disinfectant. 70% IPA is proved to be the most effective concentration.	Bactericidal (kills bacteria, viruses and fungi) at <5000ppm Sodium Hypochlorite. Sporicidal (kills spores) at >5000ppm Sodium Hypochlorite.	Bactericidal disinfectant (kills bacteria, viruses, fungi), Tuberculocidal.	Bactericidal disinfectant (kills bacteria, viruses and fungi). Some products are Tuberculocidal.	This group includes oxygen- releasing compounds (peroxygens) such as peracetic acid and hydrogen peroxide. Bactericidal (kills bacteria, viruses, fung), Tuberculocidal. Sporicidal (kills spores).
Pre-cleaning Needed	Surfaces must be pre-cleaned.	Surfaces must be pre-cleaned.	Surfaces must be pre- cleaned. Some products are registered as one step disinfectant cleaners.	Product specific. Some products registered as one-step disinfectant cleaners.	Product specific. Surfaces must be pre-cleaned, depending on formulation.
Advantages	<ul> <li>Quick evaporation</li> <li>Removes many surface contaminants</li> <li>Removes residual disinfectant</li> <li>Leaves extremely low residue</li> <li>Can be a good general use disinfectant</li> <li>Compatibility combined with other disinfectants (quaternaries, phenolics)</li> <li>No rinse required</li> </ul>	<ul> <li>The same product can be used for routine and special event tasks, by changing the concentration</li> <li>Relatively quick microbial kill</li> <li>May be used on food preparation surfaces requiring a surface rinse depending on bleach concentration</li> <li>Can be Tuberculocidal and Sporicidal with increased concentration</li> <li>Some products are Tuberculocidal</li> </ul>	<ul> <li>Mostly presented in concentrate formulations, need to be mixed to make the ready-to-use solution</li> <li>Some products are Tuberculocidal</li> <li>Effective over large pH range</li> <li>Some products are one-step disinfectants cleaners</li> </ul>	<ul> <li>One-step formulations contain a detergent to help loosen soil, no pre-clean step needed</li> <li>Colorless, odorless (but act as deodorizers)</li> <li>Less corrosive</li> <li>May be used on food preparation surfaces (need rinse)</li> <li>Effective at temperatures up to 212°F</li> </ul>	<ul> <li>Hydrogen Peroxide is non- corrosive in combination with peracetic acid</li> <li>No rinsing required</li> <li>Some products are odorless</li> <li>Clear and colorless, thereby avoiding surface staining</li> <li>Fast, broad spectrum activity, Sporicidal</li> <li>Can be safer for personnel (less toxic) depending on concentration</li> </ul>
Disadvantages	<ul> <li>Poor cleaner (does not contain detergents)</li> <li>Limited contact time, not sufficient for broad range killing, evaporates quickly</li> <li>VOC emissions</li> <li>Flammable, not to be used near a flame</li> <li>Not active against certain types of viruses</li> <li>Low toxicity but an eye irritant</li> </ul>	<ul> <li>Toxic. May damage floor finishes, carpets, clothing and other fibers when used in higher concentrations</li> <li>Has an unpleasant odor</li> <li>Must be stored separately from ammonia and flammable products</li> <li>Rinsing is required</li> <li>Corrodes metals such as stainless, aluminum</li> <li>Increase in alkalinity decreases bactericidal properties</li> <li>Eye, skin, and respiratory irritant</li> </ul>	<ul> <li>Considered a persistent bio accumulative toxin by EPA</li> <li>Disposal restrictions in some states. Check state and local regulations</li> <li>Not for use on food or food utensils</li> <li>May damage floor finishes and other surfaces</li> <li>Unpleasant odor</li> <li>Effectiveness reduced by alkaline pH or natural soap</li> <li>Prolonged contact deteriorates rubber</li> <li>Can cause skin and eye irritation</li> <li>Corrosive &amp; toxic</li> </ul>	<ul> <li>Ineffective against bacterial spores, TBC, some viruses</li> <li>Effectiveness influenced by hard water</li> <li>RTU formulations are non-irritating to skin but avoid skin or eye contact; toxic</li> <li>Neutralized by anionic soap (common) and effectiveness reduced by organic material</li> <li>Pre-rinse may be required when rotating disinfectants</li> <li>Rinsing is required</li> </ul>	<ul> <li>Rinsing is required where direct skin or oral contact can occur</li> <li>Corrosive to soft metals</li> <li>Pre-cleaning step is required</li> <li>Temperature and light sensitive</li> <li>Pungent odor (vinegar)</li> <li>Pure Hydrogen Peroxide formulations do not require rinse</li> </ul>
CDC Disinfection Level	Intermediate	Intermediate Level Disinfectant	Some are intermediate some are low level noted on label	Low Level Disinfectant	Product Specific. Low, Intermediate or High Level Disinfectant (depends on concentration and exposure time).
EPA Toxicity Category* (See chart below)	Category IV	Category I	Category I or II	Category III	Category III or IV, product specific.
Storage	Stable in storage. Keep away from oxidizing agents, heat and flames.	If used for disinfecting purposes, bleach should not be stored longer than 3 months. When mixed with water the solution is only effective as a disinfectant for 24 hours. The available chlorine level (NaOCI) must be monitored.	Stable in storage. Flammable if in aerosol form.	Stable in storage.	Stable in storage. Two year shelf life is available depending on concentration and formulation. Keep away from heat and light.

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\*EPA Toxicity Categories Require These Warnings:

Signal Word	Category	Oral Lethal Dose <sup>1</sup>
DANGER, POISON (Skull and crossbones)	I Highly toxic	A few drops to a teaspoonful
WARNING	II Moderately toxic	Over a teaspoonful to one ounce
CAUTION	III Slightly toxic	Over one ounce to one pint
CAUTION	IV Relatively non-toxic	Over one pint to one pound
10 1 150 1		

# Solutions Compatibility with Wipers, Mops & Swabs

				Disinfectants			Cleaners		
Material/ Fabric	Texwipe Wiper Products	Texwipe Mop Products	Texwipe Swab Products	TexQ®	TexTab™	TexCide™	TexP™	IPA	See Ethanol
Cellulose	604, 606, 609, 612, 1109, 1112, 1118, 3210			~					
Microdenier (100% Polyester)	TX59, 3059	AlphaMops: TX7118M, <b>STX7118M,</b> TX7114M, <b>STX7114M</b> BetaMops: TX7070, <b>STX7070</b>	Microdenier Series	1	1	1	1	1	1
Polyester (100%)	TX1010, 1012, 1029, 1050, 1052, 1060, 1069, 1070, 1080, 8659, 1004, 1009, 1009B, 1013, 1008, 1008B, 2064, 2069, 2424, 2452, 2409, 2412, 2418, 49, 42, 29, 22 TX3042, 3049, 3215, 3225, 3220, 3211, 3212, 3224, STX404, 409	AlphaMops: TX7118, <b>STX7118</b> , TX7114, <b>STX7114</b> BetaMops: TX716R, <b>STX716R</b> , TX7072, <b>STX7072</b>	Alpha Series, Absorbond Series Polyester Honeycomb Series			•			
Polyester/ Rayon		BetaMops: TX7073, <b>STX7073</b>		×	1	1	1	1	1
Nylon	TX4004, 4009, 4012		TX730	×	<b>√</b>	×	×	<b>√</b>	<b>√</b>
Cotton	TX309, TX306, TX304, TX318, TX312, TX329		Cotton Series	×	1	1	1	1	1
Foam	TX704		CleanFoam Series A, CleanFoam Series B, General Purpose Foam Series	1	~	1	1	~	~
Polypropylene/ Cellulose	TX699, 2009			×	1	1	1	1	1

#### Sterile products are marked in BOLD

 $\mathbf{X}$  = not compatible  $\mathbf{V}$  = compatible

# **Pre-Wetted Wipers**

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Solution	Material	Name	Size	TX#	Bag Qty	Case Qty	ISO Class	EU Grade
Non-Steri	le							
IPA 70%	Polyester	Vertex <sup>®</sup> HS	12" x 12" (30 cm x 30 cm)	TX42P	50	4	3-7	A-D
			9" x 9" (23 cm x 23 cm)	TX49P	75	4	3-7	A-D
		AlphaSat®	4" x 4" (10 cm x 10 cm)	TX1034	200	4	4-8	A-D
			6" x 6" (15 cm x 15 cm)	TX1036	75	12	4-8	A-D
			9" x 9" (23 cm x 23 cm)	TX1039	50	4	4-8	A-D
		QuanSat™	9" x 9" (23 cm x 23 cm)	TX1084	50	12	3-7	A-D
	Polyester/Cellulose	TechniCloth®	6" x 8" (15 cm x 20 cm)	TX1045	100	12	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX1041	70	12	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX1065	50	24	5-8	B-D
			7" x 11" (18 cm x 28 cm)	TX1067	200	4	5-8	B-D
	Polypropylene	PolySat®	7" x 11" (18 cm x 28 cm)	TX1040	200	4	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX1051	50	24	5-8	B-D
			6" x 11" (15 cm x 28 cm)	TX8723	75	24	5-8	B-D
			6" x 11" (15 cm x 28 cm)	TX8727	75	20 & 1 case container	5-8	B-D
Ethanol 70%	Polyester/Cellulose	TechniCloth®	7" x 11" (18 cm x 28 cm)	TX1068	25	20	5-8	A-D

Sterile								
IPA 70%	Polyester	Vertex <sup>®</sup> HS	12" x 12" (30 cm x 30 cm)	TX3042P	25	5	3-7	A-D
			9" x 9" (23 cm x 23 cm)	TX3049P	25	5	3-7	A-D
		AlphaSat®	12" x 12" (30 cm x 30 cm)	TX3252	25	5	4-8	A-D
Polyester/Cellulose		AlphaSat® 10	12" x 12" (30 cm x 30 cm)	TX3280	50	5	2-7	A-D
			9" x 9" (23 cm x 23 cm)	TX3285	20	20	2-7	A-D
		TechniCloth®	9" x 11" (23 cm x 28 cm)	TX3214	50	20	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX3217	20	24	5-8	B-D
	Polypropylene	PolySat®	9" x 11" (23 cm x 28 cm)	TX3213	50	20	5-8	B-D
			9" x 11" (23 cm x 28 cm)	TX3216	20	24	5-8	B-D
Ethanol 70%	Polyester/Cellulose	TechniCloth®	7" x 11" (18 cm x 28 cm)	STX1068	50	20	5-8	B-D
	Polyester	Vertex <sup>®</sup> HS	12" x 12" (30 cm x 30 cm)	TX3044P	25	5	3-7	A-D

# **Texwipe's Cleaning Rotation Recommendations**

Microbe to be killed	Disinfectants to be used	How often to use	Remove disinfectant residues
Bacteria	<ul> <li>Rotate Bactericidal Disinfectants</li> <li>• TexQ<sup>®</sup> disinfectant and</li> <li>• TexTab<sup>™</sup> (Use bactericidal dilutions)</li> </ul>	Use daily (for example, at the beginning and/or at the end of the shift); Change weekly (for example, 1st week – use TexQ <sup>®</sup> , 2nd week – use TexTab <sup>™</sup> )	TexP <sup>™</sup> Hydrogen Peroxide Solution
Bacterial Spores (C. Diff)	<ul> <li>Use Sporicidal Disinfectants</li> <li>TexCide<sup>™</sup> or</li> <li>TexTab<sup>™</sup> (Use sporicidal dilutions)</li> </ul>	Use once a week, or every 2 weeks (for example, on Fridays, at the end of the last shift)	To% IPA Sterile or non-sterile

## Sample ISO Class 5 Cleaning Frequency

Surface	Each Shift	Daily	Weekly	Monthly	Quarterly
Trash					
Gowning room	<b>√</b>				
Floors					
Equipment	<b>_</b>				
Furniture					
Doors		$\checkmark$			
Windows					
Walls			twice weekly 🗸		
Ceiling					
Under raised floors					<b>√</b>

Source: IEST-RP-CC-018.4, "Cleanroom Housekeeping: Operating and Monitoring Procedures," p. 13, Table 1.

"A risk assessment should be performed to determine the appropriate frequency for the user. This table is an example of the frequency of cleaning for an average ISO Class 5 cleanroom operation."



# Putting the **clean** in **clean**room for 50 years.

In 1964 our founder, Edward Paley, created a solution to a problem that no one could see – microcontamination. With the invention of the world's first low-lint wiping cloth, Mr. Paley and Texwipe created an entire industry – contamination control. Today we continue our legacy of clean innovation with products including wipers, swabs, mops, disinfectants, stationery, adhesive mats, sterile products and much more.









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