

Tristel Duo™

OPH

High-level disinfectant foam for
ophthalmic and optical medical devices



High-level disinfectant foam for ophthalmic and optical medical devices

Tristel Duo OPH is chlorine dioxide in a foam, designed specifically for the high-level disinfection of ophthalmic and optical medical devices. Tristel Duo is safer, easier to use and more compatible than alternative disinfectants, such as sodium hypochlorite, aldehydes, peracetic acid or alcohol.



The high-level disinfection of a diagnostic contact lens with Tristel Duo OPH.

SIMPLE PROTOCOL



APPLY

DISPENSE TWO ALIQUOTS OF TRISTEL DUO ONTO A DRY WIPE OR DIRECTLY ONTO THE INSTRUMENT



WIPE

SPREAD THE FOAM OVER THE SURFACE OF THE INSTRUMENT



WAIT

TO ENSURE A MINIMUM CONTACT TIME OF 30 SECONDS



RINSE

THE INSTRUMENT WITH WATER OF APPROPRIATE QUALITY

Tristel Duo™
OPH

High-level disinfectant foam for ophthalmic medical devices

Tristel Duo OPH is CE marked as a Class IIa Medical Device in accordance with the European Medical Devices Directive 93/42/EEC and the 2007/47/EC amendments thereto.

WHY CHOOSE TRISTEL DUO OPH?



EFFECTIVE

TRISTEL DUO OPH IS BASED ON TRISTEL'S PROPRIETARY CHLORINE DIOXIDE CHEMISTRY, A WELL-DOCUMENTED AND HIGHLY EFFECTIVE BIOCIDES. CHLORINE DIOXIDE HAS BEEN TESTED IN ACCREDITED LABORATORIES WORLDWIDE AND IS EFFECTIVE AGAINST MICROORGANISMS OF CONCERN, INCLUDING:

- *Acanthamoeba castellanii* (one of the causative organisms of *Acanthamoeba keratitis*)
- *Adenovirus*
- *Aspergillus flavus*
- *Aspergillus brasiliensis*
- *Candida albicans*
- *Fusarium solani*
- *Staphylococcus aureus*
- *Pseudomonas aeruginosa*
- *Klebsiella pneumoniae* Carbapenemase (KPC) Enterobacteriaceae
- Vancomycin-resistant *Enterococcus faecium* (VRE)

IN ADDITION TO THIS, TRISTEL DUO OPH HAS BEEN EXTENSIVELY TESTED BY MANUFACTURERS FOR MICROBIOLOGICAL EFFICACY IN SIMULATED USE TESTS, TO REPLICATE THE PRODUCT'S USE IN THE CLINICAL SETTING.



FAST

A DISINFECTION CYCLE WITH TRISTEL DUO OPH TAKES JUST 30 SECONDS, MAKING TRISTEL DUO OPH 19 TIMES FASTER THAN DISINFECTION WITH SODIUM HYPOCHLORITE, A CURRENTLY WIDELY USED DISINFECTANT IN OPHTHALMOLOGY.



COMPATIBLE

TRISTEL DUO OPH HAS BEEN TESTED AND CONFIRMED TO BE COMPATIBLE BY MAJOR MANUFACTURERS INCLUDING:

- Clarity Medical Systems
- Haag Streit
- Quantel Medical
- Reichert
- Volk



ECONOMICAL

THE USE OF TRISTEL DUO OPH ELIMINATES THE NEED FOR SINGLE-USE MEDICAL DEVICES, ALLOWING FOR SIGNIFICANT COST SAVINGS. TRISTEL ALLOWS DEVICES TO BE REPROCESSED QUICKLY, LESSENING THE NEED FOR PURCHASING MANY DEVICES REDUCING CAPITAL EXPENDITURE.

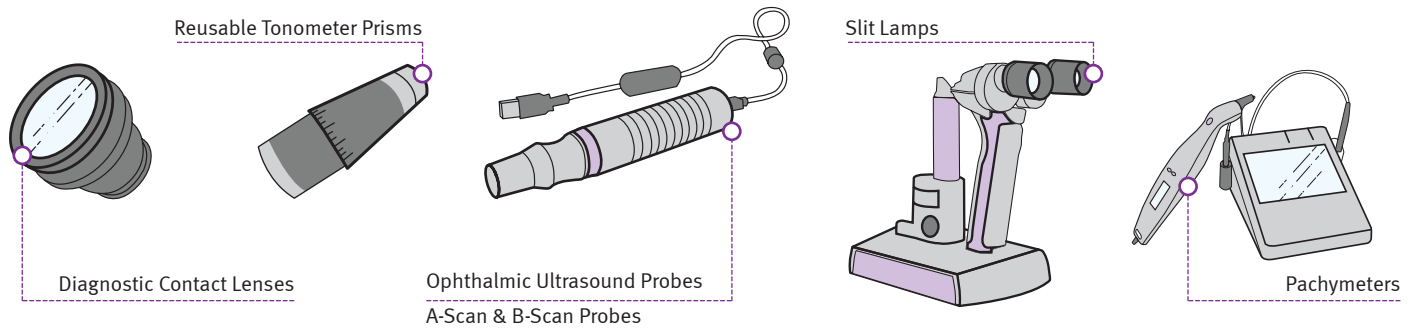


SIMPLE

TRISTEL DUO OPH IS APPLIED ONTO SURFACES WITH A DRY WIPE. NO ACCESSORIES ARE REQUIRED TO ENHANCE DUO OPH'S EFFICACY OR CONSISTENCY IN PERFORMANCE.

APPLICATIONS

Tristel Duo OPH is designed specifically for the high-level disinfection of ophthalmic and optical medical devices, such as:



Chlorine dioxide

Tristel Duo OPH utilises Tristel's proprietary chlorine dioxide chemistry (ClO₂), a well-documented and highly effective biocide. ClO₂ is a strong oxidant whose germicidal characteristics are well known. It can oxidise lipids and proteins present in bacterial and fungal cell membranes, leading to a loss in membrane integrity and ultimately cell death. ClO₂ can also penetrate cells and degrade nucleic acids via an oxidative pathway. Similar mechanisms are responsible for the ability of ClO₂ to inactivate viral particles.

Acanthamoeba keratitis is a disease of concern within ophthalmology

Acanthamoeba spp. are free-living amoeba, ubiquitous in the environment. *Acanthamoeba* keratitis (AK) is a disease that can cause corneal ulcers and potential blindness. This ocular disease is most prevalent with contact lens wearers who do not disinfect or store their lenses properly. Failure to follow simple hygiene practices such as the washing of hands prior to lens handling exacerbates the problem.

In addition to the infection risk from amoeba, mycotic eye infections are commonplace within ophthalmology practice.

The yeast *Candida albicans* is implicated with the causation of exogenous endophthalmitis. Filamentous fungi, such as *Fusarium solani* and *Aspergillus flavus* are two species of fungi that potentially constitute up to one third of all cases of traumatic infectious keratitis.⁽³⁾ Furthermore, the risk is heightened with immunocompromised patients who can contract many different ocular fungal infections.

There is no specific British Standard EN test for disinfectants to assess efficacy against amoebae. Tristel have performed a bespoke suspension test on *Acanthamoeba* cysts demonstrating efficacy in 30 seconds. This is also achieved with *Fusarium solani* and *Aspergillus flavus*.

References and publications

- Keep your eyes on Ophthalmology: Part One. The Clean Academy – Tristel. March 2014.
- ⁽¹⁾ France, 2010 'Prevention Guide to Hospital Transmitted Infection in Consultations of Ophthalmology'.
- Circulaire DGS/5 C/DHOS/E 2 n° 2001-138 du 14 mars 2001 'Relative aux précautions à observer lors de soins en vue de réduire les risques de transmission d'agents transmissibles non conventionnels' available at <http://www.sante.gouv.fr/fichiers/bo/2001/01-11/00110756.htm> accessed 18.03.2014
- ⁽²⁾ Klotz SA, Penn CC, Negvesky GJ, Butrus SI 'Fungal and Parasitic Infections of the Eye' Clin Microbiol Rev. Oct 2000; 13(4): 662-685
- ⁽³⁾ Report of a WHO Consultation Geneva, Switzerland March 1999 'WHO Infection Control Guidelines for Transmissible Spongiform Encephalopathies', available at http://whqlibdoc.who.int/hq/2000/who_cds_csr_aph_2000.3.pdf accessed 18.03.2014

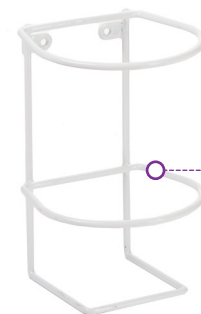
PRODUCT OPTIONS

TRISTEL DUO OPH

- 125ml Tristel Base Solution (citric acid) + 125ml Tristel Activator Solution (sodium chlorite)

When mixed upon pressing the foam pump, Tristel's proprietary chlorine dioxide chemistry is generated.

- 310 aliquots per bottle / 6 bottles per box



WALL BRACKET

for Tristel Dry Wipes

TRISTEL DRY WIPES

- Non-woven, non-absorbent dry wipes for the application of Tristel Duo OPH
- Made of 100% polypropylene (18gsm)
 - Pre-cut, non-shedding, low-linting
 - 200 wipes per tub / 6 tubs per box

Tristel

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WE HAVE CHEMISTRY.