

TC Enriched Foam

Alcohol-Free Hand Sanitizer: 0.1% Benzalkonium Chloride



technical concepts
Innovative Hygiene Solutions

TC Enriched Foam Alcohol-Free Hand Sanitizer is a fast drying, non-stinging, non-flammable formula that leaves hands feeling moisturized and most importantly germ-free. This new, safe, patent-pending hand sanitizing formula is a rich, thick, conditioning foam. It is gentle, non-irritating and not drying to the skin—even with repeated use. Use it anywhere, any time.

Benefits:

- Safe, non-flammable, non-toxic formula contains no alcohol
- Kills 99.99% of harmful germs to help prevent the spread of disease
- Effective against MRSA, VRE and E. coli in 15 seconds!
- Effective against Rhinovirus and Influenza
- NSF E3 registered formula allows no-rinse hand sanitizing in food operations, following hand washing
- Fast-drying formula leaves no residue on skin, unlike messy gels
- Thick, rich conditioning foam contains moisturizers and conditioners so it is gentle, non-irritating and not drying to the skin—even with repeated use
- Enriched with Aloe Vera and Glycerin
- Pleasant fresh fragrance
- No drip; will not stain clothing or floor
- Non-stinging formula is safe for children
- Benzalkonium Chloride hand sanitizer has been shown to reduce absenteeism in schools by 30-40%⁽¹⁾

(1) Family Medicine, October 2000

Specifications:

- Refill dispenses 0.4 ml per dose
- Available for touch-free and manually operated dispensers, to meet user preferences
- 1100 ml refill fits TC AutoFoam touch-free dispensers
- 800 ml refill fits TC manual foam dispensers



TC Enriched Foam Alcohol-Free Hand Sanitizer Refills:

Stock# Description

750592..... 800 ml (fits manual wall-mounted dispensers)
Case Pack: 6; Weight: 12.76 lbs.; Cube: .33 ft³

750593..... 1100 ml (fits AutoFoam dispensers)
Case Pack: 4; Weight: 11 lbs.; Cube: .31 ft³

Physical Characteristics:

Color: Colorless; No dye
Appearance: Thick Foam
Foam Density: 9.60
pH: 5.0-7.0
Fragrance: Fresh light

Ingredient	Purpose
Active Ingredients: 0.1% Benzalkonium Chloride	Antimicrobial Agent
Also Contains:	
Aloe Vera Glycerin Fragrance	Skin Conditioning Agent, Emollient Skin Conditioning Agent, Humectant Scent

Time Kill Studies

These studies are designed to examine the rate of kill of a test substance after inoculation with a test organism. Results are expressed in a percent reduction and log reduction of the test organism.

Exposure Time: 15 Seconds

Microorganism	% Reduction	Log Reduction
Campylobacter jejuni ATCC 29428	>99.999	>5.00 Log ₁₀
Candida albicans ATCC 10231	96.	1.42 Log ₁₀
Enterococcus faecalis Vancomycin Resistant (VRE) ATCC 51575	99.99	4.54 Log ₁₀
Escherichia coli ATCC 11229	99.999	6.00 Log ₁₀
Escherichia coli 0157:H7 ATCC 35150	>99.999	>5.80 Log ₁₀
Klebsiella pneumoniae ATCC 4352	99.999	5.70 Log ₁₀
Listeria monocytogenes ATCC 19117	99.9	3.39 Log ₁₀
Pseudomonas aeruginosa ATCC 15442	99.9999	>6.20 Log ₁₀
Salmonella choleraesuis serotype enteritidis ATCC 4931	>99.999	5.50 Log ₁₀
Salmonella choleraesuis serotype paratyphi ATCC 8759	>99.999	>5.50 Log ₁₀
Salmonella choleraesuis serotype pullorum ATCC 19945	>99.999	>5.70 Log ₁₀
Salmonella choleraesuis serotype typhimurium ATCC 23564	>99.999	>5.10 Log ₁₀
Salmonella typhi ATCC 6539	99.999	5.80 Log ₁₀
Shigella dysenteriae ATCC 13313	>99.999	>5.80 Log ₁₀
Shigella flexneri ATCC 12022	99.99	4.69 Log ₁₀
Shigella sonnei ATCC 25931	99.9999	6.09 Log ₁₀
Staphylococcus aureus ATCC 6538	>99.9999	>6.53 Log ₁₀
Staphylococcus aureus Methicillin Resistant (MRSA) ATCC 33592	>99.9	3.51 Log ₁₀
Staphylococcus epidermidis ATCC 12228	99.999	5.56 Log ₁₀
Streptococcus pneumonia ATCC 6305	>99.999	>5.51 Log ₁₀
Streptococcus pyogenes ATCC 19615	>99.999	>5.90 Log ₁₀
Vibrio cholera ATCC 11623	>99.999	>5.40 Log ₁₀
Xanthomonas axonopodis (Citrus Canker) ATCC 49118	>99.99	4.55 Log ₁₀
Yersinia enterocolitica ATCC 23715	99.99	4.77 Log ₁₀

Exposure Time: 30 Seconds

Virus / Strain	% Reduction	Log Reduction
Rhinovirus type 14 ATCC VR-284	99.00%	2.00 Log ₁₀
Influenza A H1N1 ATCC VR-1520	96.84%	1.50 Log ₁₀



Chlorine Equivalency Test

The object of this test is to determine the available chlorine germicidal equivalent concentration of the product as compared to 200,100 and 50 ppm available chlorine in the NaOCl standard controls.

Efficacy Results: TC Enriched Foam Alcohol-Free Hand Sanitizer demonstrated an available chlorine equivalent to greater than the 200 ppm NaOCl standard control when tested against Staphylococcus aureus and Salmonella typhi.

Irritancy/Toxicity Profile

- Skin Irritation: Category IV – no irritation to slight erythema at 72 hours
- Sensitization: Not a Skin Sensitizer
- Eye Irritation: Category IV - minimal effects clearing in less than 24 hours
- Oral Toxicity: Category IV - Non-toxic

Environmental Information

- Biodegradeable formula
- 1100 ml boxless refill reduces packaging waste up to 80%

Shelf Life

- 2 years (expiration date printed on refill)



World Headquarters:
Serving North and South America

Technical Concepts LLC
1301 Allanson Road
Mundelein, Illinois 60060 U.S.A.
Toll Free: 1-800-551-5155
Fax: 1-800-551-5046

www.technicalconcepts.com

European Headquarters:
Serving Europe, Africa and Middle East

Technical Concepts International Ltd.
Peterborough, PE2 6WA, England
Phone: +44 (0)870 568 6824

Asian Headquarters:
Serving Asia and Pacific

Technical Concepts Asia
No. 887, Jalan Perindustrian Bukit Minyak, Bukit Minyak
14100, Penang, Malaysia
Phone: (60) 4 508 5008

