

TC Enriched Foam

Hygienic Hand Rub - Alcohol-Free Hand Sanitizer



technical concepts
Innovative Hygiene Solutions

TC's Enriched Foam Hygienic Hand Rub leaves hands feeling soft and moisturized. This new, safe, patent-pending hand sanitizing formula is a rich, thick, conditioning foam that is gentle, nonirritating 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 and is enriched with Aloe Vera and Glycerin
- Leaves no sticky polymer residue on skin, unlike messy gels
- Ideal for use in areas prone to vandalism
- Kills 99.9% of harmful bacteria to help prevent the spread of disease:
 - Conforms to norms EN1040, EN1276, and EN12054
 - Effective against MRSA, VRE, and E-Coli in 15 seconds
- Benzalkonium Chloride hand sanitizer has been shown to reduce absenteeism in schools by 30-40%⁽¹⁾
- Foam formula contains no polymers, so hands are left cleaner with repeated use⁽²⁾
- Non-drip system: will not stain clothing or floor
- Safe for use by children

(1) Family Medicine, October 2000

(2) Published studies report benzalkonium chloride-based sanitizers demonstrate greater de-germing activity than alcohol gel hand sanitizers that actually become less effective with repeated use.

AORN Journal, August 1998, P239-251

Specifications:

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



TC Enriched Foam

| Stock Code | Description |
|------------|--|
| 750592E | 800ml (fits manual wall-mounted dispensers) Case Pack: 6; Weight: 5.7kg; Cube: .009m ³ |
| 750593E | 1100ml (fits AutoFoam dispensers) Case Pack: 4; Weight: 4.9kg; Cube: .009m ³ |

Physical Characteristics:

| | |
|-------------|--------------------|
| Colour: | Colourless; No dye |
| Appearance: | Thick Foam |
| pH: | 4.0-6.0 |

| Ingredient | Purpose |
|-----------------------|------------------------------------|
| Active Ingredients: | |
| Benzalkonium Chloride | Antimicrobial Agent |
| Also Contains: | |
| Aloe Vera | Skin Conditioning Agent, Emollient |
| Glycerin | Skin Conditioning Agent, Humectant |

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 |

European Norms

- Conforms to norms: EN1040, EN1276, EN12054

Environmental Information

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

Shelf Life

- 2 years

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 |

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