

256 Century Q TECHNICAL BULLETIN

256 Century Q is a no-rinse neutral pH disinfectant cleaner that disinfects and cleans in one labor saving step.

One Step Disinfectant Germicidal Detergent

Disinfectant, Non-Food Contact Sanitizer, Cleaner, Mildewstat, Fungicide, Virucide*, for Hospitals, Nursing Homes, Whirlpool, Food Service, Commercial, Institutional, and Industrial Use, Suitable For Use in Meat and Poultry Plants, Schools, Dairy, Equine, Poultry/Turkey Farm, Veterinary, Restaurant, Food Handling and Process Areas.

Where to Use

256 Century Q is for use on hard, non-porous surfaces in: Hospitals, medical and dental offices and clinics, healthcare facilities, nursing homes, EMS & fire facilities, emergency vehicles, day care centers and nurseries, restaurants and bars, supermarkets, retail and wholesale establishments, correctional facilities, Institutional facilities, hotels and motels, public restrooms, shower rooms, schools, colleges, commercial and industrial institutions, athletic facilities and locker rooms, exercise facilities, health clubs, whirlpools, food preparation and storage areas, food processing plants, USDA inspected food-processing facilities, farms, veterinary clinics, animal life science laboratories, kennels, zoos, tack shops, pet shops, campers, RV's, automobiles, cruise ships and public transportation.

Surface Safe

256 Century Q is formulated to disinfect on hard, non-porous surfaces such as: Hospital beds, bed railings, bedpans, shower stalls, toilet bowl surfaces, urinals, empty diaper pails, vanity tops, glazed porcelain, glazed tile and restroom fixtures, tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans/pails, glass, laminated surfaces, metal, stainless steel, glazed porcelain, glazed ceramic, sealed granite, sealed marble, plastic such as polycarbonate, polyvinylchloride, polystyrene or polypropylene, sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl, enameled surfaces, finished woodwork, vinyl and plastic upholstery, washable wallpaper, wrestling and gymnastic mats, athletic training tables, physical therapy tables, exercise equipment.

256 Century Q Specifications

Appearance	Red Liquid, Floral Scent
pH (undiluted)	7.2- 8.2 (Neutral)
Flashpoint	None
Dilutions	1/2 oz./gal. (1:256)
Water Hardness	Effective up to 400 ppm CaCO ₃ In the presence of 5% serum contamination
% Active	16.05-17.75% (Quaternary)
Foam	Low - Moderate
EPA Registration Number	47371-129-5449
DIN Registration Number	01944029
Canadian PCPNumber	24890
USDA	A4, C1, D1

256 Century Q meets the CDC criteria for disinfectant products with label claims for non-enveloped viruses: Norovirus, Adenovirus Type 2.

256 Century Q is intended for use on hard, non-porous surfaces, follow label instructions for non-enveloped viruses.

* Complies with Bloodborne Pathogens Act. 256 Century Q kills bloodborne pathogens HBV, HCV & HIV-1, making it suitable for low level disinfection of surfaces contaminated with blood or bodily fluids.

PREPARATION OF DISINFECTION/FUNGICIDAL/VIRUCIDAL* USE SOLUTION: For heavily soiled areas, a preliminary cleaning is required. Add ½-ounce of this product to 1 gallon of water (1:256) to disinfect hard non-porous surfaces. Apply use solution using a brush, cloth, mop, sponge, auto scrubber, mechanical spray device or by immersion so as to thoroughly wet surfaces. For sprayer applications, spray 6-8 inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. Change cloth, sponge or towels frequently to avoid redeposition of soil. Treated surfaces must remain wet for 10 minutes. Allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished. Rinse all treated surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

Whirlpools

DISINFECTION/FUNGICIDE/VIRUCIDE* OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS: After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add ½ ounce of this product for each gallon of (or equivalent use dilution) (660 ppm active) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and all other related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse all cleaned surfaces with fresh water. Repeat for heavy soiled units. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

Athletic Equipment

FOR DISINFECTION AND TO CONTROL THE GROWTH OF MOLD AND MILDEW ON NON-POROUS ATHLETIC EQUIPMENT: For use on wrestling and gymnastic mats, athletic mats, exercise equipment, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles, and other hard nonporous surfaces. Saturate surfaces with a use solution of ½ ounce per 1 gallon of water (or equivalent dilution). Apply by cloth, sponge, mop, brush, hand pump spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Allow surfaces to remain wet for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried. Change cloth, sponge or towels frequently to avoid redeposition of soil. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

Mold and Mildew Control

To control the growth of mold and mildew and their odors on hard, non-porous surfaces, apply use solution of 1:256 dilution, ½ ounce, per 1 gallon of water (or equivalent use dilution). Apply by cloth, sponge, mop, brush, auto scrubber or mechanical spray device to thoroughly wet all treated surfaces completely. Allow surface to remain wet for 10 minutes. Allow solution to dry on surface and repeat treatment every seven days or when new growth appears. Change cloth, sponge or towels frequently to avoid redeposition of soil. Prepare a fresh solution at least daily or when use solution becomes dirty.

Sanitizer

For heavily soiled areas, a preliminary cleaning is required. Apply sanitizer use solution of ½ ounce per 1 gallon of water to hard, non-porous non-food contact surfaces, thoroughly wetting as required. Apply with a brush, cloth, mop, sponge, auto scrubber, mechanical spray device or by immersion. For sprayer applications, spray 6-8 inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. Let stand for 3 minutes. Allow to air dry. Change cloth, sponge or towels frequently to avoid redeposition of soil. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

Food Processing Plants

For use on non-food contact hard nonporous surfaces such as floors, walls, tables, garbage cans and disposal areas. Follow the **PREPARATION OF DISINFECTION/VIRUCIDAL* /FUNGICIDAL USE SOLUTION** use directions.

Food Storage Areas

For use on non-food contact hard nonporous surfaces such as shelves, floors, walls and tables. Follow the **PREPARATION OF DISINFECTION/VIRUCIDAL*/FUNGICIDAL USE SOLUTION** use directions.

Veterinary Practice/Animal Kennels

DISINFECTION DIRECTIONS: For cleaning and disinfecting hard nonporous surfaces: equipment used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all litter, droppings, and manure from floors, walls, and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rise with water. Saturate surfaces with a use-solution of ½ oz of this product per gallon of water for a period of 10 minutes. Wipe or allow to air dry. Ventilate buildings and other closed spaces. Thoroughly scrub all treated surfaces that come into contact with food, including equipment used for feeding or watering,

with soap or detergent and rinse with potable water before reuse. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

For Heavy Duty Cleaning and/or Odor Control: When greater cleaning is desired, use 1-2 oz of this product per gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

Hospital Disinfection (at ½ ounce per gallon, 1:256)

This product is a "One-Step" Hospital Disinfectant, Virucide, Fungicide, Mildewstat, and Cleaner. Listed below, and in the following pages, is a summary of the Antimicrobial Claims and a review of the Antimicrobial Test Results.

Claim: Disinfectant		Contact Time: 10 minutes		Organic Soil: 5%		Water Conditions: 400 ppm as CaCO ₃	
Test Method:		Official Method of the AOAC, 14 Edition - Use-Dilution Method					
Organism	ATCC#	Use-Dilution Concentration	Hard Water Condition	Replicates	Results		
Acinetobacter calcoaceticus	23055	660 PPM (0.50 oz/gal)	400 ppm	10, 10	0/10, 0/10		
Bordetella bronchiseptica	31427	660 ppm	400 ppm	10, 10	0/10, 0/10		
Chlamydia psittaci	VR-854	660 ppm	400 ppm	10, 10	0/10, 0/10		
Enterobacter aerogenes	13048	660 ppm	400 ppm	10, 10	0/10, 0/10		
Enterobacter cloacae	23355	660 ppm	400 ppm	10, 10	0/10, 0/10		
Enterococcus faecalis (Vancomycin Resistant)	51299	660 ppm	400 ppm	10, 10	0/10, 0/10		
Escherichia coli	11229	660 ppm	400 ppm	10, 10	0/10, 0/10		
Escherichia coli ¹ (Clinical Isolate)	(Clinical Isolate)	660 ppm	400 ppm	10, 10	0/10, 0/10		
Fusobacterium necrophorum	27852	660 ppm	400 ppm	10, 10	0/10, 0/10		
Klebsiella pneumoniae ²	13883	660 ppm	400 ppm	10, 10	0/10, 0/10		
Legionella pneumophila	33153	660 ppm	400 ppm	10, 10	0/10, 0/10		
Pseudomonas aeruginosa	15442	660 ppm	400 ppm	60, 60, 60	0/60, 0/60, 0/60		
Salmonella choleraesuis	10708	660 ppm	400 ppm	60, 60, 60	0/60, 0/60, 0/60		
Staphylococcus aureus	6538	660 ppm	400 ppm	60, 60, 60	0/60, 0/60, 0/60		
Listeria monocytogenes	15313	660 ppm	400 ppm	10, 10	0/10, 0/10		
Pasteurella multocida	7707	660 ppm	400 ppm	10, 10	0/10, 0/10		
Proteus mirabilis	25933	660 ppm	400 ppm	10, 10	0/10, 0/10		
Proteus vulgaris	13315	660 ppm	400 ppm	10, 10	0/10, 0/10		
Pseudomonas aeruginosa ³	Clinical Isolate	660 ppm	400 ppm	10, 10	0/10, 0/10		
Salmonella Typhi	6539	660 ppm	400 ppm	10, 10	0/10, 0/10		
Salmonella Typhimurium	14028	660 ppm	400 ppm	10, 10	0/10, 0/10		
Salmonella enteritidis	13076	660 ppm	400 ppm	10, 10	0/10, 0/10		
Serratia Marcescens	8100	660 ppm	400 ppm	10, 10	0/10, 0/10		
Shigella Flexneri	12022	660 ppm	400 ppm	10, 10	0/10, 0/10		
Shigella Sonnei	9290	660 ppm	400 ppm	10, 10	0/10, 0/10		
Staphylococcus aureus ⁴	Clinical Isolate	660 ppm	400 ppm	10, 10	0/10, 0/10		
Staphylococcus aureus ⁵	CDC No. HIP-5836	660 ppm	400 ppm	10, 10	0/10, 0/10		
Staphylococcus aureus ⁶ (MRSA)	33592	660 ppm	400 ppm	10, 10	0/10, 0/10		

Staphylococcus aureus (MRSA) Community Associated	NRS 384 USA 300	660 ppm	400 ppm	10, 10	0/10, 0/10
Staphylococcus aureus (MRSA) Community Associated	NRS 123 USA 400	660 ppm	400 ppm	10, 10, 10	0/10, 0/10, 0/10
Staphylococcus epidermidis ⁷	Clinical Isolate	660 ppm	400 ppm	10, 10	0/10, 0/10
Streptococcus faecalis	19433	660 ppm	400 ppm	10, 10	0/10, 0/10
Streptococcus faecalis ⁸	19433	660 ppm	400 ppm	10, 10	0/10, 0/10
Streptococcus pyogenes	19615	660 ppm	400 ppm	10, 10	0/10, 0/10

1Resistant to the Antibiotics: Ampicillin, Carbenicillin, Kanamycin, and Tetracycline.

2Resistant to the Antibiotics: Ampicillin, Carbenicillin, Chloramphenicol, and Tetracycline.

3 Resistant to the Antibiotics: Amikacin, Ampicillin, Carbenicillin, Cefamandole, Cefazolin, Cefoxitin, Chloramphenicol, Kanamycin, and Tetracycline.

4 Resistant to

the Antibiotics: Cefazolin, Clindamycin, Erythromycin, Gentamicin, Kanamycin, Methicillin, Penicillin, Tetracycline and Tobramycin

5 Reduced Susceptibility to Vancomycin

6 Resistant to Gentamicin and Methicillin

7 Resistant to the Antibiotics: Cefazolin, Chloramphenicol, Clindamycin, Erythromycin, Gentamicin, Kanamycin, Methicillin, Penicillin, Tetracycline and Tobramycin

8 Resistant to the Antibiotics: Cefazolin, Chloramphenicol, Clindamycin, Erythromycin, Gentamicin, Kanamycin, Methicillin, Penicillin, Tetracycline and Tobramycin

Claim: Mildewstat		Contact Time: 10 minutes		Organic Soil: 5%		Water Conditions: 400 ppm as CaCO ₃	
Test Method: Mildewstat (Mold and Mildew Control) – EPA – TSD 6-201 Mildewstat on Hard Surfaces							
Organism	ATCC#	Use-Dilution Concentration	Hard Water Condition	Replicates	Results		
Aspergillus niger	6275	660 ppm (0.50 oz/gal)	400 ppm	10, 10	0/10, 0/10		

Claim: Fungicide		Contact Time: 10 minutes		Organic Soil: 5%		Water Conditions: 400 ppm as CaCO ₃		
Test Method: Official Method of Analysis of the AOAC – Fungicidal Test								
Organism	ATCC#	Use-Dilution Concentration	Hard Water Condition	Replicates	Results			
Trichophyton mentagrophytes	9533	660 ppm (0.50 oz/gal)	400 ppm	4	5 min	10 min	15 min	
Candida albicans	11651	660 ppm	400 ppm	4	0/4 +	0	0	0

Claim: Virucide		Contact Time: Varies			
Test Method: EPA Guidelines					
Organism	Source of Virus or ATCC#	Host System; Cytopathic Effect	Use-Dilution Concentration	Contact Time	Reduction (Log ₁₀) of Virus Titer
Adenovirus Type 4	ATCC VR-4 strain RI-67	H. Ep. #2 cells Cytopathic Effects	660 ppm (0.50 oz/gal)	10 Min.	5.5, 5.5
Adenovirus Type 7	ATCC VR-7	HeLa cells ATCC CEL-1958	2644 ppm (2 oz/gal)	10 Min.	>3.5, >3.5
Avian Influenza	Strain H5N1- PR8/CDC-RG CDC#20067199 65	Rhesus Monkey Kidney cells (RMK)	660 ppm	10 Min.	> 4.95
Avian Polyomavirus	lab isolate		660 ppm	10 Min.	4.0, 6.0
Canine Distemper virus	ATCC-VR-256		660 ppm	10 Min.	3.5, 3.5
Feline Leukemia virus	ATCC VR-717 Strain FL-237		660 ppm	10 Min.	4.5, 4.75
Feline	ATCC VR-649		660 ppm	10 Min.	5.0, 5.0

Picornavirus					
Hepatitis B	Hepadna Virus, Inc.(DHBV)	Primary Duck Hepaocytes No Cytopathic Effects	660 ppm	10 Min.	4.8, 4.8
Hepatitis C (HCV)	Bovine Viral Diarrhea Virus	MDBK Cells	660 ppm	10 Min.	5.5, 5.7
Herpes Simplex Type 1	HSV-1; ATCC VR-733	VERO cells; lytic cytopathic effect	660 ppm	10 Min.	>7.5, 7.5
Herpes Simplex Type 2	HSV-2; MS Strain	VERO cells; lytic cytopathic effect	660 ppm	10 Min.	>6.5, 6.5
HIV-1 (AIDS Virus)	HTLV-IIIRF; NCI	MT2 cells; lytic cytopathic effect	660 ppm	4 Min.	>3.0, 3.0
Human Corona Virus	VR-740 Strain 229E	MRC-5 Host	660 ppm	10 Min	>4.0, >4.0
Infectious Bovine Rhinotracheitis	ATCC VR-793		660 ppm	10 Min	8.0, 8.0
Infectious Bronchitis (Avian IBV)	ATCC VR-22		660 ppm	10 Min.	6.0, 6.25
Influenza A/ Hong Kong	ATCC 68-H3N2	MDCK cells; lytic cytopathic effect	660 ppm	10 Min.	>8.0, 8.0
Newcastle Disease	ATCCC VR-108 Strain B1 Hitchner or Blacksburg	Chicken embryo fibrorblast cells	660 ppm	10 Min.	>4.0, >4.0
Pseudorabies virus	ATCC VR-135		660 ppm	10 Min.	5.5, 5.5
Rabies virus	ATCC VR-138		660 ppm	10 Min.	4.5, 4.5
Respiratory Syncytical virus	ATCC VR-26		660 ppm	10 Min.	4.0, 4.5
Rotavirus	Strain WA	MA 104 cells	660 ppm	10 Min.	> 6.25
Rubella virus	Strain M-33	RK13 cells; cytopathic effect	660 ppm	10 Min.	>5.0, 5.0
SARS associated Coronavirus	Vero E6 coronavirus	Vero E6 Cells	660 ppm	10 Min	3.5, 3.5, 3.5
Transmissible Gastroenteritis	ATCC VR-763		660 ppm	10 Min.	3.5, 3.5
Vaccinia	Strain IHD	VERO Cells; lytic cytopathic effect	660 ppm	10 Min.	>7.0, 7.0



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