

## Sentinel XT Clear PAPR

Protecting employees in biopharmaceutical facilities while conducting cleaning and disinfection activities



### APPLICATION:

Biopharmaceutical companies preparing parenteral solutions, conducting sterile compounding, or filling syringes in a clean room environment often need to provide worker respiratory protection while cleaning their sterile suites with Spor-Klenz® or similar products.

### ILC Dover's Sentinel XT Clear has been specifically designed to support this application

- Clear hoods provide panoramic view which reduces the potential for injuries
- Ergonomic back harness ideal for mopping ceilings, walls, and floors
- Doubled bagged, gamma irradiated hood and breathing tube combination packs support suite operations
- Extensive filter performance data against mixtures containing peracetic acid, acetic acid, and hydrogen peroxide helps your team develop accurate change out schedules
- Trade-in programs help eliminate up front switching costs and provide you with new equipment

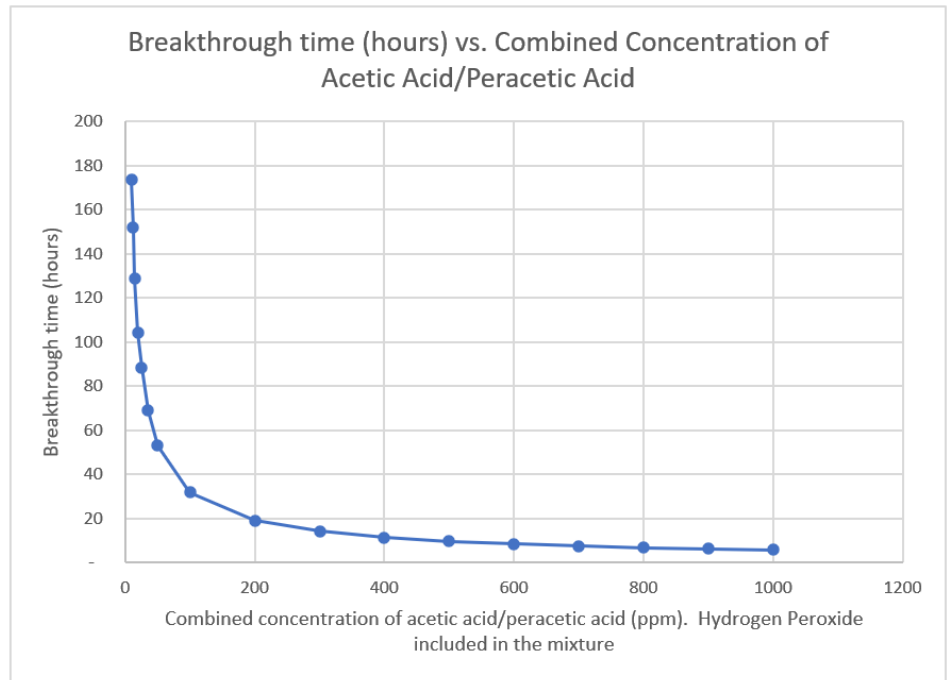
## SUPPLEMENTAL TESTING - SPORICIDAL DISINFECTANTS

Cartridges were tested against a mixture of 210 ppm acetic acid, 130 ppm hydrogen peroxide and 80 ppm peracetic acid at a flow rate of 57 lpm and 50% relative humidity. Service life was at least 19 hours with acetic acid breaking through first. Because the respirator uses 3 cartridges, this flow rate is appropriate for a loose fitting PAPR hood in which the minimum flow rate is 170 lpm.

Chemical	Acetic Acid (ppm)	Peracetic Acid (ppm)	Hydrogen Peroxide (ppm)	Flow Rate (lpm)	RH (%)	Break Concentration (ppm)	Time (min)
Peracetic Acid Mixture	210	80	130	57	50	5	1149
						5	1207
						5	1154

Additional testing against sporicidal disinfectants (e.g. SporKlenz<sup>®</sup>) was performed over a range of acetic acid/peracetic acid concentrations shown in green below. Breakthrough times in hours/8hr shifts of continuous use are provided.

Combined Concentration (ppm)*	Hours	8hr Shifts
	7	226
	10	174
	12	152
	15	129
	20	104
	25	88
	35	69
	50	53
	100	32
	200	19
	300	14
	400	11
	500	10
	600	9
	700	8
	800	7
	900	6
	1000	6



Notes: \*Combined concentration of acetic acid/peracetic acid. 6:1 ratio by volume. Acetic acid always breaks through first.

AJE report actual test concentrations - 6/23/2023, 8/29/2023

S-3327  
Sentinel XT Starter Kit



S-3603  
Gamma Irradiated Hood  
& Breathing Tube



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