

aquagear



AQUAGEAR PERFORMANCE DATA - 120 Gallon Test

	INFLUENT CHALLENGE CONCENTRATION	EFFLUENT CONCENTRATION	PERCENT REDUCTION (%)
NSF/ANSI 42 STANDARDS			
Chemical Disinfectants			
Chlorine	2 mg/L ±10%	0.07	96.51%
Turbidity			
Particulate Class I	11,000 fibers/mL ±15%	286 fibers/mL	97.52%
NSF/ANSI 53 STANDARDS			
Heavy Metals			
Lead at pH 6.5	170 µg/L	≤1 µg/L	99.41%
Lead at pH 8.5	153 µg/L	≤1 µg/L	99.35%
Mercury at pH 6.5	6 µg/L	≤0.3 µg/L	95.00%
Mercury at pH 8.5	6 µg/L	≤0.4 µg/L	93.33%
Cadmium at pH 6.5	29 µg/L	≤1 µg/L	96.55%
Cadmium at pH 8.5	30 µg/L	≤1 µg/L	96.67%
Copper at pH 6.5	3212 µg/L	≤1 µg/L	99.97%
Copper at pH 8.5	3154 µg/L	≤1 µg/L	99.97%
Zinc	9975 µg/L	≤1 µg/L	99.99%
Asbestos	13,000,00 fibers/L ±15%	22.5 fibers/L	99.97%
Volatile Organic Chemicals			
Atrazine	320 µg/L	≤0.1 µg/L	99.97%
Lindane	320 µg/L	≤0.1 µg/L	99.97%
Chloroform	320 µg/L	≤0.1 µg/L	99.97%
Benzene	320 µg/L	≤0.1 µg/L	99.97%
Toluene	320 µg/L	≤0.1 µg/L	99.97%
Haloacetonitriles (HAN)	320 µg/L	≤0.1 µg/L	99.97%
Bromochloroacetonitrile	320 µg/L	≤0.1 µg/L	99.97%
Dibromoacetonitrile	320 µg/L	≤0.1 µg/L	99.97%
Dichloroacetonitrile	320 µg/L	≤0.1 µg/L	99.97%
Trichloroacetonitrile	320 µg/L	≤0.1 µg/L	99.97%
Haloketones (HK)	320 µg/L	≤0.1 µg/L	99.97%
1,1-dichloro-2-propanone	320 µg/L	≤0.1 µg/L	99.97%
1,1,1-trichloro-2-propanone	320 µg/L	≤0.1 µg/L	99.97%
Heptachlor (H-34, Heptox)	320 µg/L	≤0.1 µg/L	99.97%
Heptachlor epoxide	320 µg/L	≤0.1 µg/L	99.97%
Hexachlorobutadiene	320 µg/L	≤0.1 µg/L	99.97%
Hexachlorocyclopentadiene	320 µg/L	≤0.1 µg/L	99.97%
Methoxychlor	320 µg/L	≤0.1 µg/L	99.97%

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NSF/ANSI 53 STANDARDS			
Volatile Organic Chemicals			
Pentachlorophenol	320 µg/L	≤0.1 µg/L	99.97%
Trihalomethanes	320 µg/L	≤0.1 µg/L	99.97%
Bromodichloromethane	320 µg/L	≤0.1 µg/L	99.97%
Carbon Tetrachloride	320 µg/L	≤0.1 µg/L	99.97%
o-dichlorobenzene	320 µg/L	≤0.1 µg/L	99.97%
1,2-dichloroethane	320 µg/L	≤0.1 µg/L	99.97%
1,1-dichloroethylene	320 µg/L	≤0.1 µg/L	99.97%
cis-1,2-dichloroethylene	320 µg/L	≤0.1 µg/L	99.97%
trans-1,2-dichloroethylene	320 µg/L	≤0.1 µg/L	99.97%
Alachlor	320 µg/L	≤0.1 µg/L	99.97%
Carbofuran	320 µg/L	≤0.1 µg/L	99.97%
Chlorobenzene	320 µg/L	≤0.1 µg/L	99.97%
Chloropicrin	320 µg/L	≤0.1 µg/L	99.97%
2,4-D	320 µg/L	≤0.1 µg/L	99.97%
Dibromochloropropane (DBCP)	320 µg/L	≤0.1 µg/L	99.97%
p-dichlorobenzene	320 µg/L	≤0.1 µg/L	99.97%
1,2-dichloropropane	320 µg/L	≤0.1 µg/L	99.97%
cis-1,3-dichloropropylene	320 µg/L	≤0.1 µg/L	99.97%
Dinoseb	320 µg/L	≤0.1 µg/L	99.97%
Endrin	320 µg/L	≤0.1 µg/L	99.97%
Simazine	320 µg/L	≤0.1 µg/L	99.97%
2,4,5-TP (silvex)	320 µg/L	≤0.1 µg/L	99.97%
Tribromoacetic acid	320 µg/L	≤0.1 µg/L	99.97%
1,2,4-trichlorobenzene	320 µg/L	≤0.1 µg/L	99.97%
Chlorodibromomethane	320 µg/L	≤0.1 µg/L	99.97%
Ethylbenzene	320 µg/L	≤0.1 µg/L	99.97%
Ethylene dibromide (EDB)	320 µg/L	≤0.1 µg/L	99.97%
Styrene	320 µg/L	≤0.1 µg/L	99.97%
1,1,2,2-tetrachloroethane	320 µg/L	≤0.1 µg/L	99.97%
Tetrachloroethylene	320 µg/L	≤0.1 µg/L	99.97%
Toluene	320 µg/L	≤0.1 µg/L	99.97%
1,1,1-trichloroethane	320 µg/L	≤0.1 µg/L	99.97%
1,1,2,2-tetrachloroethane	320 µg/L	≤0.1 µg/L	99.97%
Trichloroethane	320 µg/L	≤0.1 µg/L	99.97%
Bromoform	320 µg/L	≤0.1 µg/L	99.97%
Xylenes (total)	320 µg/L	≤0.1 µg/L	99.97%

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NSF/ANSI P473 STANDARDS			
Perfluorinated Chemicals			
PFOA	0.5 µg/L ±10%	0.02 µg/L	96.20%
PFOS	1.15 µg/L ±10%	< 0.01 µg/L	99.56%
NSF/ANSI 401 STANDARDS			
Pesticides & Herbicides			
DEET	1400 ng/L ±20%	<12.4 ng/L	99.99%
Linuron	140 ng/L ±20%	<1 ng/L	99.99%
Metolachlor	1400 ng/L ±20%	<195 ng/L	99.86%
Pharmaceuticals			
Atenolol	200 ng/L ±20%	<2.33 ng/L	99.98%
Carbamazepine	1500 ng/L ±20%	<15.66 ng/L	99.99%
Meprobamate	420 ng/L ±20%	<1.55 ng/L	99.99%
Trimethoprim	150 ng/L ±20%	<1 ng/L	99.99%
Phenytoin	200 ng/L ±20%	<12 ng/L	99.94%
Ibuprofen	350 ng/L ±20%	<10 ng/L	99.97%
Estrone	125 ng/L ±20%	<16 ng/L	99.87%
Naproxen	125 ng/L ±20%	<1 ng/L	99.99%
Industrial Pollutants			
Bisphenol A	2000 ng/L ±20%	<18.2 ng/L	99.99%
Nonyphenol	1500 ng/L ±20%	<24 ng/L	99.98%
TCEP	5000 ng/L ±20%	<42.88 ng/L	99.99%
TCPP	5000 ng/L ±20%	<93.11 ng/L	99.98%
MODIFIED NSF/ANSI STANDARDS			
Microplastics	130,000 microplastics/L ±10%	50 microplastics/L	99.99%