



# Pure Water Systems

## CC1E-HT Performance Data Sheet

**NSF 53** Multi-Pure Drinking Water Systems have been tested and certified under NSF/ ANSI Standard Nos. 53 as shown below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system as specified in NSF/ ANSI 53, Health Effects. Tests performed on Multi-Pure CB6 – system MP750SB/ MPCT. CC1E-HT is manufactured to the same formulation as CB6.

Substance	Percentage Reduction	Influent challenge concentration (mg/l unless specified)	Maximum permissible product water concentration (mg/ unless specified)
ALACHLOR	>98%	0.05	0.001
ASBESTOS	>99.9%	10(1) TO 10(8) fibres/ L: fibres greater than 10 micrometers in length	99% reduction requirement
ATRAZINE	>97%	0.1	.003
BENZINE	>99%	0.081	0.001
BROMODICHLOROMETHANE (THM)*	>99.8%	0.300 +/- 0.30	0.015
BROMOFORM (TTHA*)	>99.8%	0.300 +/- 0.30	0.015
CARBOFURAN (Furadan)**	>99%	0.19	0.001
CARBON TETRACHLORIDE	98%	0.78	0.0018
CHLORADANE	>99.5%	0.04 +/- 10%	0.002
CHLOROBENZENE (Monochlorobenzene)*	>99%	0.077	0.001
CHLOROPICRIN*	99%	0.015	0.0002
CHLOROFORM (TTHM)* (surrogate)	>99.8%	0.300 +/- 0.30	0.015
CRYPTOSPORIDIUM (Cyst)	99.95%	Minimum 50,000/ ml	99.95%
CYST (Giardia; Cryptosporidium; Entamoeba Toxoplasma)	99.95%	Minimum 50,000/ ml	99.95%
2,4-D	98%	0.110	0.0017
DBCP (ss Dibromochloropropane)*	>99%	0.052	0.00002
1,2-DCA (see 1,2-DICHLOROETHANE)*	95%	0.088	0.0048
1,1-DCE (see 1,1-DICHLOROETHYLENE)*	>99%	0.083	0.001
DIBROMOCHLOROMETHANE (TTHM Chlorodibromomethane)*	>99.8%	0.300 +/- 0.30	0.015
DIBROMOCHLOROPROPANE	>99%	0.052	0.00002
o-DICHLOROBENZENE (1,2 Dichlorobenzene)*	>99%	0.08	0.0001
1,2-DICHLOROETHANE (1,2-DCA)*	95%	0.083	0.001
CIS-1,2-DICHLOROETHYLENE*	>99%	0.17	0.0005
TRANS-1,2-DICHLOROETHYLENE*	>99%	0.086	0.001
1,2-DICHLOROPROPANE (Propylene Dichloride)*	>99%	0.08	0.0001
CIS-1,3-DICHLOROPROPYLENE*	>99%	0.079	0.001
DINOSEB*	99%	0.17	0.0002
EDB (see ETHYLENE DIBROMIDE)*	>99%	0.044	0.00002
ENDRIN*	99%	0.053	0.00059
Entamoeba (see CYSTS)	99.95%	Minimum 50,000/ ml	99.95%
ETHYLBENZENE*	>99%	0.088	0.001
ETHYLENE DIBROMIDE (EDB)*	>99%	0.044	0.00002
FURADAN (see CARBOFURAN)	>99%	0.19	0.001
GIARDIA LAMBA (see CYST)	>99.95%	Minimum 50,000/ ml	99.95%
HALOCETONITRILES (HAN)*			
BROMOCHLOROACETONITRILE	98%	0.022	0.0005
DIBROMOACETONITRILE	98%	0.024	0.0006
DICHLOROACETONITRILE	98%	0.0096	0.0002
TRICHLOROACETONITRILE	98%	0.015	0.0003
HALOKETONES (HK)**			
1,1-DICHLORO-2-PROPANONE	99%	0.0072	0.0001
1,1,1-TRICHLORO-2-PROPANONE	96%	0.0082	0.0003

\*\* Percentage reduction reflects actual performance of Multi-Pure product (MP6/ CC1E-HT) as specifically tested (at 200% of capacity) Percentage reduction shown for VOC reduction claims: the Multi-Pure Systems' actual reduction rate of Chloroform was >99.8% as tested (at 200% of capacity)

Substance	Percentage Reduction	Influent challenge concentration (mg/l unless specified)	Maximum permissible product water concentration (mg/ unless specified)
HEPTACHLOR*	>99%	0.25	0.00001
HEPTACHLOR EPOXIDE*	98%	0.0107	0.0002
HEXACHLOROBUTADIENE (Perchlorobutadiene)*	>98%	0.044	0.001
HEXACHLOROCYCLOPENTADIENE*	>98%	0.060	0.000002
LEAD (pH 6.5)	>99.3%	0.15+/-10%	0.010
LEAD (pH 8.5)	>99.3%	0.15+/-10%	0.010
LINDANE*	>99%	0.055	0.00001
MERCURY (pH 6.5)	>99%	0.006+/-10%	0.002
MERCURY (pH 8.5)	>99%	0.006+/-10%	0.002
METHOXYCHLOR*	>99%	0.050	0.0001
METHYLBENZENE (see TOLUENE)*	>99%	0.078	0.001
MONOCHLOROBENZENE (see CHLOROBENZENE)*	>99%	0.077	0.001
MTBE (methyl ter-butyl ether)	>96.6%	0.015+/-20%	0.005
POLYCHLORINATED BIPHENYLS (PCB's, Aroclor 1260)	>99.9%	0.01+/-10%	0.0005
PCE (see TETRACHLOROETHYLENE)*	>99%	0.081	0.001
PENTACHLOROPHENOL*	>99%	0.096	0.001
PERCHLOROBUTADIENE (see HEXACHLOROBUTADIENE)*	>98%	0.044	0.001
PROPYLENE DICHLORIDE (see 1,2-DICHLOROPROPANE)*	>99%	0.080	0.001
SIMAZINE*	>97%	0.120	0.004
SILVEX (see 2,4,5-TP)*	99%	0.270	0.0016
STYRENE (Vinylbenzine)*	>99%	0.15	0.0005
1,1,1-TCA (see 1,1,1-TRICHLOROETHANE)*	95%	0.084	0.0046
TCE (see TRICHLOROETHYLENE)*	>99%	0.180	0.001
1,1,2,2-TETRACHLOROETHYLENE*	>99%	0.180	0.001
TOLUENE (Methylbenzene)*	>99%	0.078	0.001
TOXAPHENE	>92.9%	0.015+/-10%	0.003
TOXOPLASMA (see CYSTS)	99.95%	Minimum 50,000/ ml	99.95%
2,4,5-TP (Silvex)*	99%	0.270	0.0016
TRIBROMOACETIC ACID+		0.042	0.001
1,2,4 TRICHLOROBENZENE (Unsymtrichlorobenzine)	>99%	0.160	0.0005
1,1,1-TRICHLOROETHANE (1,1,1-TCA)*	95%	0.084	0.0046
1,1,2-TRICHLOROETHANE*	>99%	0.150	0.0005
TRICHLOROETHYLENE (TCE)*	>99%	0.180	0.0010
TRIHALOMETHANES (TTHM) (Chloroform; Bromoform; Bromodichloromethane; Dibromochloromethane)	>99.8%	0.300+/-0.30	0.015
TURBIDITY	>99%	11+/-1NTU	0.5NTU
TRICHLOROBENZINE*	>99%	0.160	0.0005
VINYLBENZINE (see STYRENE)*	>99%	0.150	0.0005
XYLENES (TOTAL)*	>99%	0.070	0.001

**NSF 42** The system has been checked according to NSF/ ANSI Standard 42 for the reduction of the following substances. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system. Tests performed on Multi-Pure CB6 – system MP750SB/ MPCT. CC1E-HT is manufactured to the same formulation as CB6.

Substance	Percentage Reduction	Influent challenge concentration (mg/l unless specified)	Maximum permissible product water concentration (mg/ unless specified)
CHLORAMINE as Aesthetic Effect (As Monochloramine)	>97%	3.0mg/L+/-10%	0.5mg/l
CHLORINE as Aesthetic Effect	99%	2.0 mg/L+/-10%	>or=50%
PARTICULATE (Nominal Particulate Reduction), Class 1, Particles 0.5 TO<1 UM	Class 1>99%	At Least 10,000 particles / ml	>or=85%



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**AUSTRALIAN STANDARDS** Multi-Pure CC1 and its derivatives (CC1E-HT) have been Australian Standards approved – AS/ NZS 3497:1998 License PST 20072

Class	Treatment Type	Function	Pass
II (c)	Protozoa Removal	Will remove or inactivate <i>Cryptosporidium</i> and <i>Giardia</i> .	a
III	Turbidity and Particulate Reduction	Reduces cloudiness	a
IV	Taste and Odour Reduction	Reduces taste and odours	a
V	Chemical Treatment	Reduces certain chemicals Asbestos Chlorine VOC's Lead pH 6.5 Lead pH 8.5 Turbidity	a



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**AUSTRALIAN GOVERNMENT ANALYTICAL LABORATORIES** Multi-Pure CC1 tested for E.coli reduction. Lab report S91/ 7351-2: S91/ 7357-60 31-07-91. The accompanying table is an extract from the report. (Full report available on request)

Compound	Before filtration spiked	After filtration	Decrease %
PCB Screen	50	<1	>98
DDT	17	0.3	98
DDE	19	0.2	99
DDD	20	0.3	99
Dieldrin	19	0.4	98
Aldrin	15	0.2	99
BHC	18	<0.1	>99
HCB	14	<0.1	>99
Oxychlorodane	17	0.2	99
Endrin	18	0.2	99
Heptachlor Epoxide	19	0.2	99
Lindane	19	<0.1	>99

The above results are expressed as ug/ L (ppb)

Compound	Before filtration spiked	After filtration	Decrease %
Cadmium	0.52	0.09	83
Copper	1.3	<0.005	>99
Mercury	0.51	<0.05	>90
Lead	0.54	<0.05	>91
Zinc	5.5	0.27	95
Aluminium (not spiked)	0.09	<0.05	>44
E.coli (MPN/ 100mL)	24x10(6)	<1	100

The above results are expressed as mg/L (ppm), except for E.coli (most probable number/ 100mL).

Five litres of tap water were spiked with the above compounds and pumped through the filter at 3.9 L/min. Approximately three litres of filtrate were discarded prior to collection. The water was analysed before and after filtration.