

### INATTIVAZIONE DI FUNGHI CON OZONO

Organismo	% di riduzione	Tempo (min.)	Concentrazione (mg/l)	pH	Temp. (°C)	Mezzo di trasporto	Tipo di reazione	Commenti	Referenze
Candida Parapsilosis	99,6	1,67	0,23 – 0,26	7	24	Ozone demand free water	Completely mixed continuous flow-through		Farooq and Akhlaque (1983)
Candida tropicalis	99	0,30	0,02	7,2	20	Ozone demand free water	Completely mixed continuous flow-through		Kawamura et al. (1986)

### INATTIVAZIONE DI PROTOZOI CON OZONO

Organismo	% di riduzione	Tempo (min.)	Concentrazione (mg/l)	pH	Temp. (°C)	Mezzo di trasporto	Tipo di reazione	Ct(mg/min) L
Naeglaria gruberi	99	7,8	0,55	7	6	Water	Batch	4,23
	99	2,1	2	7	5	Water	Batch	4,23
	99	4,3	0,3	7	25	Water	Batch	1,29
	99	1,1	1,2	7	25	Water	Batch	1,29
Giardia muria	99	12,9	0,13	7	5	Water	Batch	1,94
	99	2,8	0,7	7	5	Water	Batch	1,94
	99	9	0,03	7	25	Water	Batch	0,27
	99	1,8	0,15	7	25	Water	Batch	0,27
Giardia lamblia	99	5,3	0,1	7	5	Water	Batch	0,53
	99	1,1	0,5	7	5	Water	Batch	0,53
	99	5,5	0,03	7	25	Water	Batch	0,17
	99	1,2	0,15	7	25	Water	Batch	0,17

- 1: Farooq, S., Akhlaque, S., 1983. Comparative response of mixed cultures of bacteria and virus to ozonation. *Water Res.* 17,309.
- 2: Edelstein, P.H., Whittacker, R.E., Kreiling, R.I., and Howell, C.I. 1982. Efficacy of Ozone in eradication of *Legionella Pneumophila* from hospital plumbing fixtures. *App. Environ Microbiol.* , 44, 1330-1331.
- 3: Joret, J.C., Block, J.C., Hartemann and Richards, Y. 1982. Wastewater disinfection; Elimination of fecal bacteria and enteric viruses by Ozone. *Ozone: Sci. Eng.* 4, 91-99.
- 4: Harakeh, M.S., and Butler, M. 1983. Factors influencing the ozone inactivation.
- 5: Kawamuram K. , Kanckom M., Hiratam T. and Taguchim K. 1986. Microbial indicators for the efficiency of disinfection processes. *Water Sci. Technol.* 18, 175-184.
- 6: Wiekramanayake, G.B. 1984. Kinetics and mechanism of Ozone Inactivation of Protozoan Cysts. Ph. Dissertation. Dept. Of Civil Engineering. The Ohio State University. Columbus, OH - USA.
- 7: Rubin, A.J., Engel, R.P. and Sproul, O.J., 1983. Disinfection of amoebic cysts in water with free chlorine. *J. Water Poll. Cont. Fed.*, 55, 1174-1182.