

Water Treatment with Ozone

Ozone Dosages

Application		Ozone Dose (mg/l)	Contact Time
1.	Swimming Pools		
A.	Ozone/Chlorine Treatment		
	*Water Temperature up to 28°C	0.8-1.0	2 min
	*Water Temperature above 28°C	1.0-1.2	2 min
	*High Use Recreation Pools & Spas	1.0-1.2	2 min
B.	Ozone/Bromine Treatment		
	*Water Temperature up to 28°C	1.0-1.6	1 min
	*Water Temperature above 28°C	1.2-1.6	1 min
	*High Use Recreation Pools & Spas	1.2-2.0	1 min
2.	Bottled Water Industry	1.0-2.0	5-10 min
3.	Potable Water Supply		
A.	Turbidity Removal & Purification	1.5-3.0	5-10 min
B.	Trihalomethane Precursor Removal	1.5-3.0	5-10 min
C.	Taste & Odour Control	1.0-5.0	5-10 min
D.	Colour Removal – Tannins & Lignins	3.0-10.0	10-30 min
E.	Manganese & Iron	1.0-3.0	5-10 min
4.	Ultrapure Water	1-3	10-120 secs
5.	Aquatic Life Support Systems (recirculated)		
A.	Sea Water		
	To Flowrate with 1-2hrs T.O.	0.2-1.0	10-90 secs
B.	Fresh Water		
	To Flowrate with 1-2hrs T.O.	0.2-1.0	3-5 min
C.	Marine Mammals		
	Sea Water	2.0-3.0 mg/mg BOD	90 secs
D.	Marine Mammals		
	Fresh Water	2.0-3.0 mg/mg BOD	3-5 min
6.	Waste Water Effluent	5-15	15-30 min
7.	Cooling Towers	0.1-0.2 (on flow)	Continuous Dose
8.	Odour Control		
A.	Sewage Odours	2.0-2.5 ppm/ppm H ₂ S	1-10 secs
B.	Rendering Plants	5-20	10-20 secs

NOTE: Range values are typical from varied data base studies and usage

CAUTION! The quality and quantity of material treated dictates Ozone demand.