

APPENDIX B
Chlorine Dosage

Table B-1. Chlorine dosage calculator

Desired parts per million	1	1	1	1	5	5	5	5	25	25	25	25	50	50	50	50	100	100	100	100	200	200	200	200
Strength of chlorine solution	5%	25%	70%	100%	5%	25%	70%	100%	5%	25%	70%	100%	5%	25%	70%	100%	5%	25%	70%	100%	5%	25%	70%	100%
Gallons of water to be chlorinated	1 gal	1 lb 11 oz	10 oz	6.7 oz	5 gal	8 lb 6 oz	3 lb	2 lb 2 oz	25 gal	41 lb 12 oz	14 lb 15 oz	10 lb 7 oz	50 gal	83 lb 7 oz	30 lb	20 lb 14 oz	100 gal	166 lb 13 oz	59 lb 10 oz	41 lb 12 oz	200 gal	333 lb 10 oz	119 lb 4 oz	83 lb 7 oz
25,000	2 gt	134 oz	5 oz	3.34 oz	2.5 gal	4 lb 3 oz	1 lb 8 oz	1 lb 1 oz	125 gal	20 lb 14 oz	7 lb 8 oz	5 lb 4 oz	25 gal	41 lb 12 oz	15 lb	10 lb 7 oz	50 gal	83 lb 7 oz	29 lb 13 oz	20 lb 14 oz	100 gal	166 lb 13 oz	59 lb 10 oz	41 lb 12 oz
10,000	25.6 oz	5.5 oz	2 oz	1.34 oz	1 gal	1 lb 11 oz	9.6 oz	6.72 oz	5 gal	8 lb 6 oz	3 lb	2 lb 2 oz	10 gal	16 lb 11 oz	6 lb	4 lb 3 oz	20 gal	33 lb 6 oz	12 lb	8 lb 6 oz	40 gal	66 lb 12 oz	23 lb 14 oz	16 lb 11 oz
5,000	12.8 oz	2.8 oz	1 oz	.61 oz	2 qt	14 oz	4.8 oz	3.36 oz	2.5 gal	4 lb 3 oz	1 lb 8 oz	1 lb 1 oz	5 gal	8 lb 6 oz	3 lb	2 lb 2 oz	10 gal	16 lb 11 oz	6 lb	4 lb 3 oz	20 gal	33 lb 6 oz	11 lb 12.4 oz	8 lb 6 oz
2,000	5.12 oz	1.1 oz	.4 oz	.26 oz	25.6 oz	6 oz	1.92 oz	1.35 oz	1 gal	1 lb 11 oz	9.6 oz	6.68 oz	2 gal	3 lb 6 oz	11 lb 4 oz	13.5 oz	4 gal	6 lb 11 oz	2 lb 62 oz	1 lb 11 oz	8 gal	13 lb 6 oz	4 lb 12.4 oz	3 lb 6 oz
1,000	2.56 oz	.55 oz	.2 oz	.14 oz	12.8 oz	.3 oz	.96 oz	.68 oz	2 qt	13.6 oz	4.8 oz	3.34 oz	1 gal	1 lb 11 oz	9.6 oz	6.72 oz	2 gal	3 lb 6 oz	1 lb 3.1 oz	13.5 oz	4 gal	6 lb 11 oz	2 lb 6.2 oz	1 lb 11 oz
500	1.28 oz	.28 oz	.1 oz		6.4 oz	1.4 oz	.48 oz	.34 oz	1 qt	6.72 oz	2.4 oz	1.67 oz	2 qt	13.5 oz	4.8 oz	3.36 oz	1 gal	1 lb 11 oz	9.54 oz	6.72 oz	2 gal	3 lb 6 oz	1 lb 3.1 oz	134 oz
200	.512 oz	.11 oz			2.56 oz	.56 oz	.2 oz	.14 oz	12.8 oz	2.68 oz	.96 oz	.68 oz	25.6 oz	5.4 oz	1.92 oz	1.35 oz	51.2 oz	10.7 oz	3.82 oz	2.67 oz	102.4 oz	1 lb 6 oz	7.64 oz	5.34 oz
100	.256 oz				1.28 oz	.28 oz	.1 oz	.64 oz	.64 oz	1.35 oz	.48 oz	.34 oz	12.8 oz	2.7 oz	.96 oz	.68 oz	25.6 oz	5.4 oz	1.91 oz	1.35 oz	51.2 oz	10.7 oz	3.82 oz	2.67 oz
50	.13 oz				.64 oz	.14 oz			3.2 oz	.68 oz	.24 oz	.17 oz	6.4 oz	1.4 oz	.48 oz	.34 oz	12.8 oz	2.72 oz	.96 oz	.68 oz	25.5 oz	5.4 oz	1.91 oz	1.34 oz
25	.064 oz				.32 oz				1.6 oz	.34 oz	.12 oz		3.2 oz	.68 oz	.24 oz	.17 oz	6.4 oz	1.36 oz	.48 oz	.34 oz	12.8 oz	2.72 oz	.96 oz	.67 oz
10	.026 oz				.128 oz				.64 oz	.14 oz			1.28 oz	.3 oz	.1 oz		2.56 oz	.56 oz	.192 oz	.14 oz	5.12 oz	1.12 oz	.384 oz	.27 oz
5	.013 oz				.064 oz				.32 oz				.64 oz	.14 oz			1.28 oz	.28 oz	.1 oz		2.56 oz	.56 oz	.192 oz	.14 oz

Materials used are as follows: 5%-sodium hypochlorite (liquid) 25%-chlorinated lime (solid) 70%- calcium hypochlorite (solid) 100%-gaseous chlorine

Use Table B-1 (page B-1) to determine how much of a material with chlorine must be used to chlorinate a given amount of water. To use the chart, follow these steps.

Select the desired parts of chlorine per million of water.

Determine the strength of the solution to be used. This decision will determine which chlorine-containing material to use. The materials to be used are as follows:

- Liquid sodium hypochlorite for a 5 percent solution.
- Solid chlorinated lime for a 25 percent solution.
- Solid calcium hypochlorite for a 70 percent solution.
- Gaseous chlorine for a 100 percent solution.

Compute the number of gallons to be chlorinated.

Read across the gallons-of-water line and down the parts-per-million/strength-of-solution column. Where they intersect is the amount of material required.