

English Measure Chemical Dosage Chart (Based on Taylor Tests)

DECREASING TOTAL ALKALINITY (MURIATIC ACID)

REQUIRED	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
10 PPM	1.04 fl oz.	10.40 fl oz.	20.80 fl oz.	1.30 qts.	3.26 gal	1.63 gal
20 PPM	2.08 fl oz.	1.30 qts.	1.30 qts.	2.60 qts.	1.63 gal	3.25 gal
30 PPM	3.08 fl oz.	1.98 qts.	1.98 qts.	3.90 qts.	2.44 gal	4.88 gal
40 PPM	4.16 fl oz.	1.30 qts.	2.60 qts.	1.30 gal	3.25 gal	6.50 gal
50 PPM	5.20 fl oz.	1.63 qts.	3.25 qts.	1.63 gal	4.07 gal	8.13 gal
60 PPM	6.24 fl oz.	1.98 qts.	3.90 qts.	1.98 gal	4.88 gal	9.75 gal
70 PPM	7.28 fl oz.	2.28 qts.	1.14 gal	2.28 gal	5.70 gal	11.40 gal
80 PPM	8.32 fl oz.	2.60 qts.	1.30 gal	2.60 gal	6.50 gal	13.00 gal
90 PPM	9.34 fl oz.	2.92 qts.	1.46 gal	2.92 gal	7.30 gal	14.60 gal
100 PPM	10.40 fl oz.	3.26 qts.	1.63 gal	3.26 gal	8.15 gal	16.30 gal

INCREASING TOTAL ALKALINITY (SODIUM BICARBONATE)

REQUIRED	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
10 PPM	1.20 oz	12.00 oz	1.50 lbs	3.00 lbs	7.50 lbs	15.00 lbs
20 PPM	2.40 oz	1.50 lbs	3.00 lbs	6.00 lbs	15.00 lbs	30.00 lbs
30 PPM	3.60 oz	2.25 lbs	4.50 lbs	9.00 lbs	22.50 lbs	45.00 lbs
40 PPM	4.80 oz	3.00 lbs	6.00 lbs	12.00 lbs	30.00 lbs	60.00 lbs
50 PPM	6.00 oz	3.75 lbs	7.50 lbs	15.00 lbs	37.50 lbs	75.00 lbs
60 PPM	7.20 oz	4.50 lbs	9.00 lbs	18.00 lbs	45.00 lbs	90.00 lbs
70 PPM	8.40 oz	5.25 lbs	10.50 lbs	21.00 lbs	52.50 lbs	105.00 lbs
80 PPM	9.60 oz	6.00 lbs	12.00 lbs	24.00 lbs	60.00 lbs	120.00 lbs
90 PPM	10.80 oz	6.75 lbs	13.50 lbs	27.00 lbs	67.50 lbs	135.00 lbs
100 PPM	12.00 oz	7.50 lbs	15.00 lbs	30.00 lbs	75.00 lbs	150.00 lbs
110 PPM	13.20 oz	8.25 lbs	16.50 lbs	33.00 lbs	82.50 lbs	165.00 lbs
120 PPM	14.40 oz	9.00 lbs	18.00 lbs	36.00 lbs	90.00 lbs	180.00 lbs

INCREASING PH USING BASE DEMAND TEST (SODIUM CARBONATE)

DROPS	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
1	0.25 oz	2.50 oz	5.00 oz	10.00 oz	1.56 lbs	3.12 lbs
2	0.50 oz	5.00 oz	10.00 oz	1.25 lbs	3.12 lbs	6.24 lbs
3	0.75 oz	7.50 oz	15.00 oz	1.88 lbs	4.68 lbs	9.36 lbs
4	1.00 oz	10.00 oz	1.25 lbs	2.50 lbs	6.25 lbs	12.50 lbs
5	1.25 oz	12.50 oz	1.57 lbs	3.13 lbs	7.80 lbs	15.60 lbs
6	1.50 oz	15.00 oz	1.88 lbs	3.75 lbs	9.35 lbs	18.70 lbs
7	1.75 oz	1.09 lbs	2.19 lbs	4.38 lbs	10.90 lbs	21.80 lbs
8	2.00 oz	1.25 lbs	2.50 lbs	5.00 lbs	12.50 lbs	25.00 lbs
9	2.25 oz	1.41 lbs	2.82 lbs	5.63 lbs	14.00 lbs	28.00 lbs
10	2.50 oz	1.56 lbs	3.13 lbs	6.25 lbs	15.60 lbs	31.20 lbs

INCREASING CALCIUM HARDNESS (CALCIUM CHLORIDE)

REQUIRED	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
10 PPM	1.00 oz	10.00 oz	1.25 lbs	2.50 lbs	6.25 lbs	12.50 lbs
20 PPM	2.00 oz	1.25 lbs	2.50 lbs	5.00 lbs	12.50 lbs	25.00 lbs
30 PPM	3.00 oz	1.88 lbs	3.76 lbs	7.52 lbs	18.80 lbs	37.50 lbs
40 PPM	4.00 oz	2.50 lbs	5.00 lbs	10.00 lbs	25.00 lbs	50.00 lbs
50 PPM	5.00 oz	3.13 lbs	6.26 lbs	12.50 lbs	31.30 lbs	62.50 lbs
60 PPM	6.00 oz	3.75 lbs	7.50 lbs	15.00 lbs	37.50 lbs	75.00 lbs
70 PPM	7.00 oz	4.38 lbs	8.76 lbs	17.50 lbs	43.80 lbs	87.50 lbs
80 PPM	8.00 oz	5.00 lbs	10.00 lbs	20.00 lbs	50.00 lbs	100.00 lbs
90 PPM	9.00 oz	5.65 lbs	11.30 lbs	22.60 lbs	56.50 lbs	113.00 lbs
100 PPM	10.0 oz	6.25 lbs	12.50 lbs	25.00 lbs	62.50 lbs	125.00 lbs

DECREASING PH USING ACID DEMAND TEST (MURIATIC ACID)

DROPS	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
1	0.43 fl oz	4.30 fl oz	8.60 fl oz	1.10 pts	2.70 pts	2.70 qts
2	0.86 fl oz	8.60 fl oz	1.10 pts	1.10 qts	2.70 qts	1.35 gal
3	1.20 fl oz	12.90 fl oz	1.60 pts	1.60 qts	1.00 gal	2.00 gal
4	1.60 fl oz	1.10 pts	1.10 qts	2.20 qts	1.35 gal	2.70 gal
5	2.00 fl oz	1.25 pts	1.25 qts	2.50 qts	1.70 gal	3.30 gal
6	2.40 fl oz	1.60 pts	1.60 qts	3.20 qts	2.00 gal	4.00 gal
7	2.80 fl oz	1.90 pts	1.90 qts	3.80 qts	2.35 gal	4.70 gal
8	3.20 fl oz	1.10 qts	2.20 qts	1.10 gal	2.70 gal	5.50 gal
9	3.60 fl oz	1.20 qts	2.40 qts	1.20 gal	3.00 gal	6.00 gal
10	4.00 fl oz	1.25 qts	2.50 qts	1.25 gal	3.30 gal	6.70 gal

DECREASING PH USING ACID DEMAND TEST (SODIUM BISULFATE, DRY/ACID)

DROPS	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
1	0.50 oz	5.00 oz	10.00 oz	1.25 lbs	3.13 lbs	6.26 lbs
2	1.00 oz	10.00 oz	1.25 lbs	2.50 lbs	6.25 lbs	12.50 lbs
3	1.50 oz	15.00 oz	1.88 lbs	3.76 lbs	9.40 lbs	18.80 lbs
4	2.00 oz	1.25 lbs	2.50 lbs	5.00 lbs	12.50 lbs	25.00 lbs
5	2.50 oz	1.57 lbs	3.13 lbs	6.26 lbs	15.70 lbs	31.30 lbs
6	3.00 oz	1.88 lbs	3.76 lbs	7.52 lbs	18.80 lbs	37.60 lbs
7	3.50 oz	2.19 lbs	4.38 lbs	8.76 lbs	21.90 lbs	43.80 lbs
8	4.00 oz	2.51 lbs	5.00 lbs	10.00 lbs	25.10 lbs	50.10 lbs
9	4.50 oz	2.82 lbs	5.65 lbs	11.30 lbs	26.20 lbs	56.30 lbs
10	5.01 oz	3.13 lbs	6.26 lbs	12.50 lbs	31.30 lbs	62.60 lbs

CHLORINE NEUTRALIZATION (SODIUM THIOSULFATE)

REQUIRED	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
1 PPM	0.10 oz	0.96 oz	1.92 oz	3.84 oz	9.60 oz	1.20 lbs
5 PPM	0.48 oz	4.80 oz	9.60 oz	1.20 lbs	3.00 lbs	6.00 lbs
10 PPM	0.96 oz	9.60 oz	1.20 lbs	2.40 lbs	6.00 lbs	12.00 lbs
15 PPM	1.44 oz	14.40 oz	1.80 lbs	3.60 lbs	9.00 lbs	18.00 lbs
20 PPM	1.92 oz	1.20 lbs	2.40 lbs	4.80 lbs	12.00 lbs	24.00 lbs
30 PPM	2.88 oz	1.80 lbs	3.60 lbs	7.20 lbs	18.00 lbs	36.00 lbs
50 PPM	4.80 oz	3.00 lbs	6.00 lbs	12.00 lbs	30.00 lbs	60.00 lbs

I/G Pool Size	Volume	8hr. Turnover
Rectangular	US Gal	GPM
12' X 24'	12,960	27
14' X 28'	17,640	37
16' X 30'	21,600	45
16' X 32'	23,040	48
16' X 34'	24,480	51
16' X 36'	25,920	54
16' X 40'	28,800	60
18' X 32'	25,920	54
18' X 34'	27,540	58
18' X 36'	29,160	61
18' X 40'	32,400	68
20' X 40'	36,000	75
20' X 44'	39,600	83
24' X 44'	47,520	99

AMOUNT OF SANITIZER TO YIELD 1 PPM FREE AVAILABLE CHLORINE

SANITIZER	% ACC	500 GAL	5,000 GAL	10,000 GAL	20,000 GAL	50,000 GAL	100,000 GAL
CL2-GAS	100%	0.004 lbs	0.042 lbs	0.835 lbs	0.167 lbs	0.417 lbs	0.834 lbs
TRICHLOR	90%	0.005 lbs	0.046 lbs	0.093 lbs	0.185 lbs	0.463 lbs	0.926 lbs
CAL HYPO	70%	0.006 lbs	0.060 lbs	0.119 lbs	0.238 lbs	0.596 lbs	1.190 lbs
CAL HYPO	65%	0.006 lbs	0.064 lbs	0.128 lbs	0.257 lbs	0.642 lbs	1.280 lbs
DICHLOR	62%	0.007 lbs	0.072 lbs	0.144 lbs	0.287 lbs	0.718 lbs	1.440 lbs
NaDCC.2H2O	56%	0.008 lbs	0.075 lbs	0.149 lbs	0.298 lbs	0.745 lbs	1.490 lbs
LITHIUM	35%	0.013 lbs	0.128 lbs	0.238 lbs	0.476 lbs	1.190 lbs	2.380 lbs
SOD. HYPO	10.30%	0.65 fl oz	6.50 fl oz	13.000 fl oz	1.600 pts	2.000 qts	1.000 gal

A/G Pool Size	Volume	8hr. Turnover
Round / Oval	US Gal	GPM
12'	3,400	7
15'	5,310	11
18'	7,650	16
21'	10,410	22
24'	13,600	28
27'	17,200	36
12' X 24'	6,800	14
15' X 25'	8,850	18
15' X 30'	10,620	22
16' X 32'	12,090	25
18' X 33'	14,020	29
18' X 36'	15,300	32