

## A Brief Introduction to Swimming Pool Water Chemistry

# Lowering pH

## Muriatic Acid Dosage Using Taylor Acid Demand Test

|         | Gallons in Pool |            |            |            |          |          |          |
|---------|-----------------|------------|------------|------------|----------|----------|----------|
| # Drops | 400             | 1,000      | 5,000      | 10,000     | 20,000   | 50,000   | 100,000  |
| 1       | .37 fl oz       | .92 fl oz  | 4.58 fl oz | 9.16 fl oz | 1.15 pt  | 1.43 qt  | 2.86 qt  |
| 2       | .73 fl oz       | 1.83 fl oz | 9.16 fl oz | 1.15 pt    | 1.15 qt  | 2.86 qt  | 1.43 gal |
| 3       | 1.10 fl oz      | 2.75 fl oz | 13.7 fl oz | 1.72 pt    | 1.72 qt  | 1.07 gal | 2.15 gal |
| 4       | 1.47 fl oz      | 3.67 fl oz | 1.15 pt    | 1.15 qt    | 2.29 qt  | 1.43 gal | 2.86 gal |
| 5       | 1.83 fl oz      | 4.58 fl oz | 1.43 pt    | 1.43 qt    | 2.86 qt  | 1.79 gal | 3.58 gal |
| 6       | 2.20 fl oz      | 5.5 fl oz  | 1.72 pt    | 1.72 qt    | 3.44 qt  | 2.15 gal | 4.30 gal |
| 7       | 2.57 fl oz      | 6.41 fl oz | 1.00 qt    | 2.00 qt    | 1.00 gal | 2.51 gal | 5.01 gal |
| 8       | 2.93 fl oz      | 7.33 fl oz | 1.15 qt    | 2.29 qt    | 1.15 gal | 2.86 gal | 5.73 gal |
| 9       | 3.30 fl oz      | 8.25 fl oz | 1.29 qt    | 2.58 qt    | 1.29 gal | 3.22 gal | 6.44 gal |
| 10      | 3.67 fl oz      | 9.16 fl oz | 1.43 qt    | 2.86 qt    | 1.43 gal | 3.58 gal | 7.16 gal |

## Dry Acid (93.2%) Using Taylor Acid Demand Test

|         | Gallons in Pool |         |          |          |          |          |          |
|---------|-----------------|---------|----------|----------|----------|----------|----------|
| # Drops | 400             | 1,000   | 5,000    | 10,000   | 20,000   | 50,000   | 100,000  |
| 1       | .49 oz          | 1.23 oz | 6.16 oz  | 12.3 oz  | 1.54 lbs | 3.85 lbs | 7.70 lbs |
| 2       | .99 oz          | 2.46 oz | 12.3 oz  | 1.54 lbs | 3.08 lbs | 7.70 lbs | 15.4 lbs |
| 3       | 1.48 oz         | 3.70 oz | 1.16 lbs | 2.31 lbs | 4.62 lbs | 11.6 lbs | 23.1 lbs |
| 4       | 1.97 oz         | 4.93 oz | 1.54 lbs | 3.08 lbs | 6.16 lbs | 15.4 lbs | 30.5 lbs |
| 5       | 2.46 oz         | 6.16 oz | 1.93 lbs | 3.85 lbs | 7.70 lbs | 19.3 lbs | 38.5 lbs |
| 6       | 2.96 oz         | 7.39 oz | 2.31 lbs | 4.62 lbs | 9.24 lbs | 23.1 lbs | 46.2 lbs |
| 7       | 3.45 oz         | 8.63 oz | 2.70 lbs | 5.39 lbs | 10.8 lbs | 27.0 lbs | 53.9 lbs |
| 8       | 3.94 oz         | 9.86 oz | 3.08 lbs | 6.16 lbs | 12.3 lbs | 30.8 lbs | 61.6 lbs |
| 9       | 4.44 oz         | 11.1 oz | 3.47 lbs | 6.93 lbs | 13.9 lbs | 34.7 lbs | 69.3 lbs |
| 10      | 4.93 oz         | 12.3 oz | 3.85 lbs | 7.70 lbs | 15.4 lbs | 38.5 lbs | 77.0 lbs |