

Breakpoint Chlorination Worksheet

1. In "Step 1", Subtract Free Chlorine (FC) from Total Chlorine (TC) to find the Combined Chlorine (CC) amount.
2. In "Step 2", multiply the CC amount by 10. This is the Breakpoint Chlorination (BPC) amount.
3. In "Step 3", subtract FC from BPC to find the Desired Change.
4. In Box #3, write the Desired Change amount from Step 3.
5. In Box #1, write the amount of chlorine needed (from dose chart or label), including the unit of measure.
6. In Box #2, record the pool volume, in gallons.
7. Divide going down in the Pool Volume and Desired Chemical Change columns. Record your answers in the bottom row.
8. Multiply the three numbers in the bottom row and record your answer in the Total column.
9. If needed, convert to the desired unit of measure (fluid ounces to gallons, ounces to pounds).

Step 1: TC _____ - FC _____ = CC 0

Step 2: CC _____ x 10 = BPC _____

Step 3: BPC _____ - FC _____ = Desired Change _____

Amount of Chemical (From Dose Chart)	Actual Pool Volume	Desired Chemical Change	Total
	Box #2	Box #3	
	÷ 10,000 Gal	÷ 1.0 PPM	
Box #1	X _____	X _____	= _____

Chemical Dose Chart

<u>FUNCTION/CHEMICAL</u>	<u>AMOUNT</u>	<u>CHANGE</u>
Increase Free Available Chlorine		
Chlorine Gas (gas)	1.3 ounces	1 PPM
Calcium Hypochlorite (tablets, granules)	2.0 ounces	1 PPM
Sodium Hypochlorite (liquid)	10.7 fluid ounces	1 PPM

Dry Oz. ÷ 16 = Pounds

Fluid Oz. ÷ 128 = Gallons