

# CHLORINE AMPOULE TEST KIT



## DESCRIPTION

The Chlorine Ampoule Test Kit provides a safe, easy and accurate method for determining free and total chlorine levels. The uniquely designed self-filling ampoule has a tapered tip and contains premeasured, vacuum-sealed liquid reagent. When the ampoule tip is immersed in a water sample and snapped off, the correct volume of sample is automatically drawn into the ampoule, and a small inert gas bubble forms. The sample and reagent are mixed by tilting the ampoule so the bubble travels from end to end. The resulting color can be quantified by comparing the color of the ampoule with colored standards.

The Chlorine Ampoule Test Kit employs the U.S. EPA approved DPD (N,N-diethyl-p-phenylenediamine) methodology where free chlorine reacts with DPD to form a pink color.

## APPLICATION & USE

The Chlorine Ampoule Test Kit is used for determining free and total chlorine in potable and recreational water.

Results are expressed as ppm  $\text{Cl}_2$ .

## PROCEDURE

1. Fill the sample cup to the 25-ml mark with the sample.
2. Place the chlorine ampoule's tapered tip into the bottom of the sample cup. Snap the tip by squeezing the ampoule toward the side of the cup. The sample will fill the ampoule and begin to mix with the reagent.
3. Remove the chlorine ampoule from the cup. Mix the contents of the ampoule by inverting it several times, allowing the bubble to travel from end to end each time.
4. Wipe all liquid from the exterior of the ampoule. Wait 1 minute for full color development.
5. After 1 minute, use the comparator to determine the level of chlorine in the sample.

a. When using the lower range comparator (0-1.0 ppm), place the chlorine ampoule, flat end downward, into the center tube of the comparator. Direct the comparator toward a source of bright white light while viewing from the bottom. Hold the comparator in a nearly horizontal position and rotate it until the color standard below the chlorine ampoule shows the closest match.

b. When using the high range comparator (1-5 ppm), be sure it is illuminated by a white light directly above the comparator. The filled chlorine ampoule should be placed between the color standards for viewing. It is important that the chlorine ampoule be compared by placing it on both sides of the standard tube before concluding that it is darker, lighter or equal to the standard.



Chlorine Ampoule Test Kit  
(Range 0-1 and 1-5 ppm Chlorine) PCN 0364018

## TOTAL CHLORINE PROCEDURE

1. Fill the sample cup to the 25-ml mark with the sample.
2. Add 5 drops of Activator Solution. Stir briefly. Wait 1 minute.
3. Perform the Free Chlorine Procedure using this pretreated sample.

## KIT CONTENTS AND OTHER INFORMATION

Chlorine Ampoule Test Kit (PCN 0364018) contains:

- 1 flat comparator
- 1 x 7 ml Activator Solution
- 1 cylindrical comparator
- 1 set of instructions
- 1 snap cup
- 30 ampoules

Chlorine Ampoule Refill (PCN 0364026) contains:

- 30 ampoules

Chlorine Activator Solution (PCN 0364034) contains:

- 6 x 7 ml

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