

# BOILER PHOSPHATE TEST KIT



## DESCRIPTION

The Boiler Phosphate Ampoule Test Kit provides a safe and easy method for determining boiler water phosphate levels. Each self-filling ampoule has a tapered, prescored tip containing premeasured, vacuum-sealed liquid reagent. When the ampoule is immersed in a cooled boiler water sample and the tip is snapped off, the correct volume of sample is drawn into the ampoule and a small bubble forms. Inverting the ampoule several times, allowing the bubble to travel from end to end then mixes sample and reagent. The resulting yellow color is quantified by comparing the color of the ampoule with the colored standards.

## APPLICATION AND USE

Boiler water phosphate should be tested daily using the Boiler Phosphate Ampoule Test Kit. This kit was developed for testing phosphate in water systems operating at pressures up to 60 bar.

Before testing sample must be cooled to 25° C (77° F) by collecting through a sample cooler for safety and to prevent flashing which concentrates the sample.

See reverse side for test procedure.



Boiler Phosphate Ampoule Test Kit (Range 0-120 ppm)  
PCN 1AA0003

## TEST KIT CONTENTS AND ORDER INFORMATION

Boiler Phosphate Ampoule Test Kit (PCN 1AA0003) contains:

- 1 comparator
- 1 snap cup
- 1 set of instructions
- 30 ampoules

Boiler Phosphate Ampoule Refill (PCN 1AA0004) contains:

- 30 ampoules

Filter Paper, box of 100 sheets PCN 0225012

Funnel, Plastic PCN 0221010

## FEATURES

- Vacuum-sealed ampoules
- Snap-and-read technology
- Reliable
- Minimal test preparations
- Long shelf life
- Each ampoule is labeled for phosphate

## BENEFITS

- Minimizes operator contact with reagents
- Simple to use
- Helps to identify proper phosphate dosage
- Saves time
- Eliminates errors from expired reagents
- Helps to ensure the correct ampoule is used

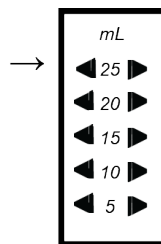


Contact your Drew Marine representative for more information

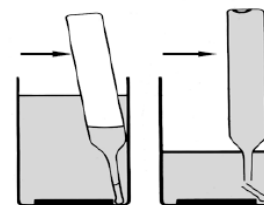
**NOTE:** Filter the boiler water sample before running this test. Filter paper and funnel are supplied separately.

## PROCEDURE

1. Fill the sample cup to the 25-ml mark with sample (Step 1).
2. Place the Boiler Phosphate ampoule's tapered tip into one of the four depressions in 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 reagent (Step 2).
3. Remove the Boiler Phosphate 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 (Step 3).
4. Wipe all liquid from the exterior of the ampoule and wait 5 minutes for full color development (Step 4).
5. When using the comparator, be sure it is illuminated by a white light directly above the comparator. The filled Boiler Phosphate ampoule should be placed between the color standards for viewing. It is important that the 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 (Step 5).



Step 1



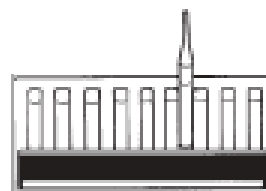
Step 2



Step 3



Step 4



Step 5



Contact your Drew Marine representative for more information

Drew Marine maintains Safety Data Sheets on all of its products. These documents contain health and safety information for the development of appropriate product handling procedures to protect your employees. Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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