

## DESCRIPTION

The AMERSITE CHZ Ampoule Test Kit provides a safe, simple, and accurate method for determining the AMERSITE CHZ level in boiler water. The test kit contains two self-filling ampoules with tapered, prescored tips containing premeasured, vacuum-sealed liquid reagents. When an ampoule is immersed in a boiler water sample and the tip is snapped off, the correct volume of sample is automatically drawn in, 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 is quantified by placing the filled test ampoule in the center of the cylindrical comparator and comparing with the eight color standards around it.

## APPLICATION & USE

Dissolved oxygen in steam generating systems causes corrosion and pitting of metal surfaces which can lead to boiler inefficiency, equipment failure and system downtime. Therefore, it is essential to keep the dissolved oxygen level as low as possible by dosing AMERSITE CHZ corrosion inhibitor to the feedwater to react with excess oxygen. Accurate testing for AMERSITE CHZ levels is affected by temperature, pressure and residence time in the boiler. The AMERSITE CHZ Test Kit contains a Part A and a Part B that analyze for the presence of two distinct chemical entities that together represent the total concentration of active corrosion inhibitor in the boiler. The AMERSITE CHZ level in boiler water should be tested once a day.

Before testing, samples 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.

## WATER TREATMENT TESTING



PCN 1AB2690

## TEST KIT CONTENTS AND ORDER INFORMATION

AMERSITE CHZ Corrosion Inhibitor Ampoule Test Kit (PCN 1AB2690) contains:

- 2 cylindrical comparator
- 1 set of instructions
- 2 sample snap cups
- (1) 7.5 ml bottle of AMERSITE CHZ Part B Activator Solution (PCN 1AB2693)
- AMERSITE CHZ Part A Ampoules (30/box)
- AMERSITE CHZ Part B Ampoules (30/box)

AMERSITE CHZ Corrosion Inhibitor Ampoule Refill Kit contains:

- Part A Refill Kit (PCN 1AB2691) 30 ampoules per box
- Part B Refill Kit (PCN 1AB2692) 30 ampoules per box
- AMERSITE CHZ Part B Activator Solution (6) 7.5 ml bottles

## SAMPLE PREPARATION

Before testing, samples must be cooled to 25°C (77° F) by collecting through a sample cooler for safety and to prevent flashing which concentrates the sample. If the sample is colored or turbid, filter before running this test.

## FEATURES

- Two analytical methods that look for all active corrosion inhibitor species.
- Operator contact with reagents is minimized
- Snap-and-read technology
- Vacuum-sealed reagent

## BENEFITS

- Accurate results regardless of operating conditions
- Safe to use
- Simple to use
- Minimum two-year shelf life



Contact your Drew Marine representative for more information

## AMERSITE® CHZ A TEST PROCEDURE

(Use **BLACK** packaging/labels)

1. Fill the sample cup to the 25 ml mark with the sample to be tested (fig 1).

2. Place the AMERSITE® CHZ A ampoule, tip first, into the sample cup. Snap the tip by squeezing the ampoule toward the side of the cup. The ampoule will fill leaving a bubble for mixing (fig 2).

3. Remove the ampoule from the cup. Mix the contents of the ampoule by allowing the bubble to travel from end to end several times (fig 3).

4. Dry the ampoule and wait 10 minutes for color development.

5. Place the ampoule, flat end first, into the AMERSITE® CHZ A comparator. Hold the comparator up toward a source of light and view from the bottom. Rotate the comparator until a color match is found (fig 4).

## SAFETY INFORMATION

Read SDS before performing this test procedure.

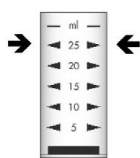


Figure 1

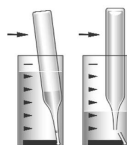


Figure 2

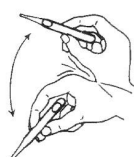


Figure 3



Figure 4

## AMERSITE® CHZ B TEST PROCEDURE

(Use **BLUE** packaging/labels)

1. Fill the sample cup to the 25 ml mark with the sample to be tested (fig 1).

2. Add 2 drops of Activator Solution (fig 2). Stir to mix the contents of the cup. Wait 5 minutes.

3. Place the AMERSITE® CHZ B ampoule, tip first, into the sample cup. Snap the tip by squeezing the ampoule toward the side of the cup. The ampoule will fill leaving a bubble for mixing (fig 3).

4. Remove the ampoule from the cup. Mix the contents of the ampoule by allowing the bubble to travel from end to end several times (fig 4).

5. Dry the ampoule and wait exactly 1 minute for color development.

6. Place the ampoule, flat end first, into the AMERSITE® CHZ B comparator. Hold the comparator up toward a source of light and view from the bottom. Rotate the comparator until a color match is found (fig 5).

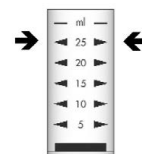


Figure 1



Figure 2

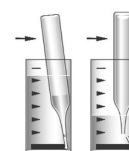


Figure 3



Figure 4



Figure 5



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