Fact Sheet

Continuum™ AEC3156

Alkaline Treatment Program

- Controls deposition and scale with patented AEC non-phosphonate technology.
- Stable in presence of halogens.
- Maximizes corrosion and deposition protection.
- Minimizes or eliminates acid feed.
- Organic Halogen Stable Azole (HRA) inhibitor for copper or copper alloy metallurgy.
- Easy and accurate MoO4 Tracer.

Description and Use

Continuum™ AEC3156 is an alkaline treatment program containing Alkyl Epoxy Carboxylate (AEC). The AEC, a non-phosphonate calcium carbonate inhibitor, is the primary ingredient of the Continuum AEC technology and is used as a patented deposit control agent. This product is a complete program containing components to control corrosion and scale formation in open recirculating cooling water systems over the alkaline pH range of 7.8 to 9.0 plus. The alkaline AEC programs are versatile and have been successfully used in a broad range of systems operating under variety of conditions.

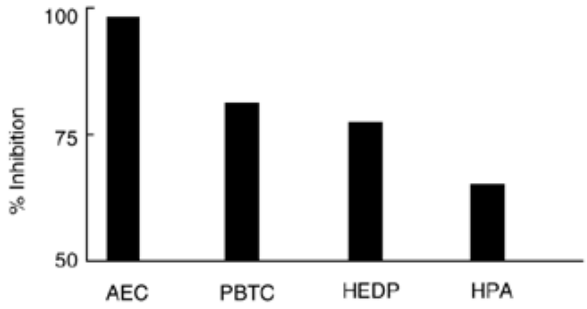

Figure 1: Calcium Carbonate Inhibition with Equal Actives Concentration in a High LSI System.

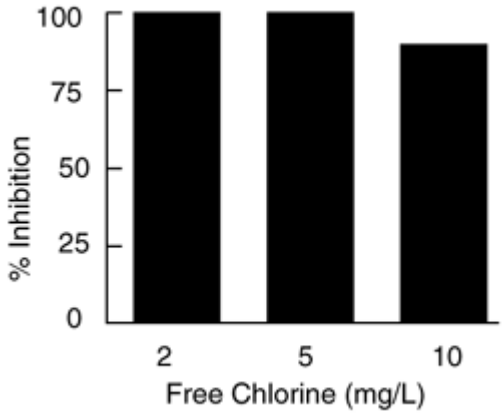

Figure 2: Stability of 10 mg/L AEC at High LSI in the Presence of Chlorine

AEC technology is a major breakthrough in calcium carbonate scale control. Figure 1 demonstrates the ability of AEC to inhibit calcium carbonate scale compared to other conventional inhibitors.
Organic phosphate inhibitors are susceptible to breakdown or reversion in the presence of chlorine leading to an inefficacy in carbonate inhibition. Figure 2 demonstrates that there is no loss of calcium carbonate scale inhibition by AEC in the presence of chlorine. The AEC molecule is halogen stable.
This product contains the GE patented Halogen Resistant Azole (HRA). The HRA has dramatically improved copper and mild steel corrosion rates where applied while reducing the environmental impact of the treatment program.

Treatment and Feeding Requirements

Proper treatment levels for Continuum AEC3156 depend on many factors such as the potential corrosion and scaling conditions particular to a given installation. This product should be used in accor-

Visit us online at www.gewater.com

Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Watertown, MA
+1-617-926-2500

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86-21-5298-4573

dance with control procedures that GE establishes for a specific application. Continuum AEC3156 should be fed to a point in the cooling system where it rapidly mixes with the bulk cooling water.
For best results, Continuum AEC3156 should be fed neat (undiluted). Dilutions, if necessary, can only be made with low hardness water.
The feed of Continuum AEC3156 is controlled by a simple and accurate molybdate test. Tanks, pumps, piping, and valves should be made of stainless steel, polyethylene, or PVC.

General Properties

Physical properties of Continuum AEC3156 are shown on the Material Safety Data Sheet, a copy of which is available on request.

Packaging Information

Continuum AEC3156 is a liquid blend, available in a wide variety of customized containers and delivery methods. Contact your GE representative for details.

Storage and Handling

Store Continuum AEC3156 at moderate temperatures and protect from freezing. If frozen, thaw completely and mix thoroughly prior to use.

Safety Precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.