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## PRODUCT DATA

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### AES-A-332 CLOSED SYSTEM INHIBITOR

#### **DESCRIPTION AND USE**

AES-A-332 is a highly concentrated liquid blend of alkaline buffers, nitrite, polymer dispersant, and an azole yellow metal corrosion inhibitor. It is specifically formulated for the treatment of closed recirculating water systems constructed of multiple metallurgy. The product is used in both low and high temperature systems as well as low pressure boiler systems with limited makeup water. It may be used with either hard or soft water makeup and is compatible with glycol antifreezes.

#### **CHEMICAL FEEDING AND CONTROL**

AES-A-332 is normally shot fed to the system to establish the desired treatment concentration. For most systems, either a shot or bypass feeder is usually used. Treatment control may either employ the nitrite or sodium nitrite test; whichever is more convenient for the plant. Treatment control ranges vary depending upon the system being treated and will be specified by the technical specialist servicing the facility.

#### **TYPICAL PROPERTIES**

Appearance: Pale yellow liquid  
Odor: Practically none  
Flash Point: None  
Specific gravity: 1.20 – 1.28  
pH: 11 -13  
Freeze Point: 0°C(32 °F)  
(All values approximate)

#### **SAFETY AND HANDLING**

Do not take internally. If ingested, drink at least two glasses of water and if the patient is conscious, induce vomiting. Then get immediate medical attention. Contact with eyes causes irritation or burns. If eyes are contacted, immediately flush with clear water for 15 minutes and if irritation persists, get medical attention. For skin contact, wash with soap and water. For additional information, the Material Safety Data Sheet (MSDS) is available on request.

#### **PACKAGING**

AES-A-332 is packaged in 200 and 25 liter (nominal volume) plastic drums.

# AES TREATMENT PROGRAMS & SERVICES

## Cooling Water Treatment Programs

Corrosion Inhibitors  
Antiscalants & Antifoulants  
Biocides  
Antifoams

## Boiler Water Treatment Programs

Oxygen Scavengers  
Corrosion Inhibitors ( Pre-Boiler, Boiler and After  
Boiler)  
Deposit Inhibitors ( Sludge Conditioners)  
Antifoams  
Alkalinity Builders

## Potable Water Treatment Programs

Corrosion Inhibitors  
Deposit/ Scale Inhibitors  
Disinfectants

## Fuel Treatment (Solid & Liquid)

Deposit/ Corrosion Inhibitors  
Combustion Catalysts

## Coagulants & Flocculants

Organic & Inorganic

## Odor Control Programs

Masking Agents  
Reactive Odor Control  
Enzymes

## Hard Surface Cleaners

General Purpose Cleaners  
Descalers  
Neutralizers

## Brewery & Bottling Plants

Pasteurizers  
Bottle Washers  
Conveyer Chain Lubricants

## Metal Treatment Chemicals

Cutting Lubricants  
Degreasers  
Passivators  
Phosphatizing Chemicals  
Electroplating Chemicals

## R.O. Water Treatment

Scale Inhibitors  
Membrane Cleaning Chemicals  
ANSI/ NSF Approved Antiscalants

## Thermal Desalination Treatment

Scale and Corrosion Inhibitors  
Antifoams  
Descalers

## Steam & Condensate Programs

Corrosion Control  
USDA/ FDA Approved Additives

## Raw Water & Wastewater Programs

Coagulants      Odor control  
Flocculants      Enzymes  
Disinfectants    Bacterial Spores  
Antifoams      Emulsion Breakers

## Process Treatment Programs

Specialty Chemical Additives

## Commercial Laundry Chemicals

Built Detergents  
Emulsifiers  
Fabric Softeners  
Peroxide Bleach  
Chlorine Bleach  
Scoring Agents

## Services

Technical & Engineering Consultations  
Analytical Services  
Ion Exchange Resins Evaluation  
Reverse Osmosis Cleaning

## Equipment Supply

Water & Wastewater Treatment Plants  
Filters, Pumps  
Tanks  
Chemical Feed Systems  
PH Controllers  
Blow down Controllers  
Automatic Control Systems  
SCADA

Manufactured in the Kingdom of Saudi Arabia by :

The logo for AES, featuring the letters 'AES' in a bold, italicized, red font with a white outline.

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