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## PRODUCT DATA

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### AES-A-325 COOLING WATER CORROSION AND SCALE INHIBITOR

#### DESCRIPTION AND USE

AES-A-325 is designed to represent one of the best available "all organic" treatment technologies for open, recirculating cooling water systems operated with high hardness, high alkalinity makeup waters. It is designed to optimize inhibition of calcium carbonate deposits, iron oxides, and manganous oxides; key benefits should the makeup water contain low level concentrations of iron and manganese. AES-A-325 permits higher cycles than obtainable with competitive all organic products, thus saving makeup water and treatment chemicals.

#### CHEMICAL FEEDING AND CONTROL

AES-A-325 is normally fed continuously to the system being treated. However, shot feeding may be satisfactory in some circumstances. The product may either be fed neat directly from the shipping container or diluted with water and mixed in a chemical feed tank. Normal materials of construction are satisfactory for the chemical feed system.

AES-A-325 is normally controlled by an organic phosphonate test. Experience has shown that the most reliable tests utilize a UV light for organic phosphonate reduction and a colorimeter for measurement. However, various color comparator and drop tests may also be satisfactory when properly standardized.

#### TYPICAL PROPERTIES

Appearance: Clear Pale Yellow Liquid  
Odor: Mild characteristic  
Flash Point: None  
Specific Gravity-1.08 - 1.12  
pH: 1.0 - 4.0  
(All values approximate)

#### SAFETY AND HANDLING

Do not take internally. If ingested, drink at least two glasses of water and get medical attention. Contact with eyes causes severe irritation or burns. For skin contact, wash with soap and water. For additional information, the Material Safety Data Sheet is available on request.

#### PACKAGING

AES-A-325 is packaged in 200 and 25 liter (nominal volume) non-returnable 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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