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## PRODUCT DATA

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### AES-A-354 CLOSED SYSTEM INHIBITOR

#### DESCRIPTION AND USE

AES-A-354 is blend of Zinc, Phosphate, Sequestering agent with Specialized polymer designed to represent one of the best available corrosion inhibitor and dispersant for open, recirculating cooling water systems that are using high hardness water and prone to contamination by silt, mud, organic impurities and clays.

AES-A-354 is a superior Corrosion inhibitor, Dispersant and Stabilizer. Specialized polymer present in it effectively inhibits or disperses scales like calcium phosphate, calcium carbonate, and calcium sulfate. Thus product performs excellent in high alkalinity/hardness and high total dissolved solids. AES-A-354 works excellent in stressed conditions which are found in cooling waters due to high levels of calcium, iron, phosphates or zinc either, naturally occurring in the feed water or introduced via treatment.

AES-A-354 disperses calcium, iron and kaolin and prevents their adhesion to heat transfer surface and thus help in maintain excellent heat transfer and low corrosion rates. It also controls the precipitation of phosphates and Zinc in circulating water with high amounts of calcium, iron or alkalinity, to allow controlled film formation of these corrosion inhibitors at the metal surface and, thus maintain low corrosion rates. It is designed to disperse these contaminants and prevent their deposition even at low velocity areas in the system.

AES-A-354 is compatible with all types of biocides including chlorine.

#### CHEMICAL FEEDING AND CONTROL

AES-A-354 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 or mixed in a chemical feed tank. Normal materials of construction are satisfactory for the chemical feed system.

#### TYPICAL PROPERTIES

Appearance: Clear Colorless to Yellow liquid

Flash Point: None

Specific gravity : 1.10 – 1.15

pH: Less than 3.0

Solubility: Completely Soluble

(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-354 is packaged in 200 and 25liter (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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