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## PRODUCT DATA

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### AES-A-333 COOLING WATER CORROSION & SCALE INHIBITOR

#### DESCRIPTION AND USE

AES-A-333 is formulated as a highly concentrated corrosion and scale inhibitor for the treatment of recirculating cooling water systems having high makeup water demand and slightly corrosive water. This formulation incorporates a synergistic blend of a zinc salt and organic phosphonates for inhibition of steel corrosion and inhibition of scale in waters containing low to moderate concentrations of hardness, iron, manganese, and alkalinity.

#### CHEMICAL FEEDING AND CONTROL

AES-A-333 is normally fed continuously to the system being treated by means of a chemical proportioning pump. The most effective means of control is to meter pace the feed pump. The latter flow proportioning method is preferred, especially for once through cooling systems having variable water flow rates and recirculating systems with high water losses and variable makeup requirements.

AES-A-333 is controlled by an organo phosphonate and/or a zinc test. The particular test chosen will depend upon both the system being treated and the treatment range required. The overall product application and the specific chemical feed and control methods employed will be specified by the technical representative servicing the facility.

#### TYPICAL PROPERTIES

Appearance: Pale liquid  
Odor: Characteristic  
Flash Point: None  
Specific gravity: 1.19 - 1.24  
pH (undiluted): < 3.0  
Freeze Point: < -3°C (27°F)  
(All values approximate)

#### SAFETY AND HANDLING

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

#### PACKAGING

AES-A-333 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 :



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