



**AES ARABIA LTD**

Environmental & Process Engineering



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## **PRODUCT DATA**

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### **AES-A-271**

### **WATER SYSTEM CORROSION & SCALE INHIBITOR**

#### **DESCRIPTION AND USE**

AES-A-271 is a stabilized, liquid phosphate silicate formulation utilized for the treatment of potable water distribution systems. The product may also be used in once through cooling water systems and under certain conditions in recirculating cooling applications. It is designed to provide both corrosion and scale control at low treatment dosages.

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

AES-A-271 is normally fed continuously to the systems being treated by means of a chemical proportioning pump. The most effective means of control is to meter pace the feed pump. Another effective method that can be used where a well pump produces a constant output is to electrically wire the chemical metering pump for simultaneous on/off operation with the well water pump.

AES-A-271 is controlled by a total inorganic phosphate test. The most accurate methods employ a boil reversion and measurement with a photometer. 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: Clear Colorless To Slight Hazy Liquid  
Odor: Odorless  
Flash Point: None  
Specific gravity: 1.20 - 1.28  
pH (undiluted): 11-13  
Freeze Point: < -10°C (16°F)  
(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 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, see the Material Safety Data Sheet provided with this product.

#### **PACKAGING**

AES-A-271 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.

## **AES ARABIA LTD**

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