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## PRODUCT DATA

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### AES C-235 REVERSE OSMOSIS MEMBRANE CLEANER

#### DESCRIPTION AND USE

AES C-235 is a high strength liquid formulation specifically designed to remove inorganic deposits such as calcium carbonate and metal salts from cellulose acetate, polyamide and ultrafiltration membrane surfaces.

It effectively removes Iron and Manganese oxides/ Hydroxides deposits.

A highly effective formulation where other products have failed or produced limited results.

#### CHEMICAL FEEDING AND CONTROL

Make cleaning solution with potable water that is free from bacteria, residual chlorine or other oxidizing agents.

The solution is prepared by adding 2.5 - 4.0 Kg of AES C-235 for every 100 liters of water to be used ( 2.5 – 4.0 % W/V).

The cleaning solution is then circulated throughout the system. Adjust the cleaning solution pH to about 2 - 4 using Ammonia if required. Recirculate

the cleaning solution throughout the system, after redirecting the first 20% of the solution to drain. Do not exceed pressures, temperatures and flow rates recommended by the membrane manufacturer. Cleaning efficacy can be further improved by heating the cleaning solution and alternately circulating the solution for 15 minutes and then soaking the membranes for 15 minutes. Repeat as many times as necessary. Monitor the pH range periodically throughout the cleaning. When pH increases above the desired range, it should be adjusted by adding more



AES C-235. The specific dosages and procedure for cleaning will be specified by the technical representative who can also assist you during implementation of the cleaning.

#### TYPICAL PROPERTIES

Appearance: Clear Colourless To light Yellow Liquid

Odor: Characteristic

Stability: Excellent

Solubility: Completely Soluble

PH : Less than 3.0

Specific Gravity :1.10 to 1.20

(All values approximate)

#### SAFETY AND HANDLING

Store in a cool dry place. In accordance with good safety practice, handle with care and avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing dust. For more information, the Material Safety Data Sheet is available on request.

## **PACKAGING**

AES C-235 is packaged in 25 liter (nominal volume) plastic nonreturnable drums.

Information given above may be amended without notice.  
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# 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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