



## PRODUCT DATA

### AES-A-902M CATIONIC POLYELECTROLYTE

#### DESCRIPTION

AES-A-902M is a liquid cationic flocculent which works effectively as primary coagulant in the clarification of water and oily waste. The ingredients of AES-A-902M are approved for use in potable water treatment in the United States and the United Kingdom.

#### ADVANTAGES

- Easy to apply. Pourable liquid, which simplifies dilution, feed and handling operations
- Economical. Effective at low dosage levels resulting in reduced handling and storage costs.
- Eliminates inorganic flocculants.
- Forms low volume sludge.
- Requires less frequent sludge blow-down.
- Increases time between filter backwashes.
- Effective over wide pH range and eliminates need for pH adjustment.
- Removes turbidity and color from water.
- Immediately soluble in water at all concentrations.
- Non-corrosive.
- Improves solids capture and clarity of filtrate or supernatant.

#### PRINCIPAL USES:

- Replaces inorganic salts as primary coagulant in influent and effluent treatment.
- Can be applied in Gravity settling, Clarifiers, Air Flotation separation, direct filtration - pressure and gravity, drying beds, dewatering by vacuum filter or filter belt.
- Pre-treatment of water for Reverse Osmosis, and Hyperfiltration and secondary oil recovery.
- Treatment of effluent waters containing organic matter, cellulose, and oil.
- Improving clarity from inorganic settlement operations.
- Sewage sludge treatment.
- Food Industry.
- Treatment of highly organic wastes.

#### TREATMENT LEVELS

Primary Coagulant: 1 - 40 mg/l  
Coagulant aid: 0.2 - 10mg/l  
Flotation: 1 - 40 mg/l

#### TYPICAL PROPERTIES

Appearance: Clear Colourless To Pale Yellow or Amber Liquid  
Specific Gravity: 1.02 - 1.08  
pH (as supplied): 3.0 – 6.0  
Solubility in water: Completely Soluble  
(All values approximate)

#### APPLICATION

The product should be metered to the system using a corrosion resistant positive displacement pump at a concentration of 1% or less. Dissolution is possible via in-line dilution with water.

#### HANDLING

The product has a low order of toxicity and is not irritating to skin or eye. Consequently only normal measures of personal hygiene and plant housekeeping should be needed in handling this product. Spills are slippery and should be flushed immediately with water.

#### PACKAGING

AES-A-902M is available 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**

Environmental & Process Engineering

P.O. Box 105689, Riyadh 11656, Kingdom of Saudi Arabia

Phone: 966 11 4772398 Fax: 966 11 4785456

e-mail: [info@aesarabia.com](mailto:info@aesarabia.com)

[www.aesarabia.com](http://www.aesarabia.com)