AES ARABIA LTD

Environmental & Process Engineering

ISO 9001 BUREAU VERITAS Certification

PRODUCT DATA

AES-C-180
MEMBRANE PERFORMANCE ENHANCER FOR MBR

DESCRIPTION AND USE

AES-C-180 is a blend of Polymer which increases MBR throughput, Lowers membrane fouling rate, & reduces membrane cleaning frequency

MBR are increasingly being used for municipal industrial wastewater treatment, as an alternative to the conventional activated sludge process. In the MBR process, the separation of biomass from water is earned out by ultrafiltration or microfiltration membranes. The membranes are either placed inside the tank containing the sludge (submerged MBR) and filtered waste water is withdrawn from the membrane units, or the membranes are positioned outside the tank, and the sludge is pumped through the unit (external MBR).
AES-C-180 polymer will increase the critical flux and decrease the membrane fouling rate.

CHEMICAL FEEDING AND CONTROL

AES-C-180 can be applied to an MBR continuously to improve the performance throughout the year, or intermittently for short-term increase of membrane flux. The general dosage range is 200-800 ppm, in the mixed liquor, followed by additional amounts, as needed, to compensate for the loss of the product associated with sludge wasting.

For best results, **AES-C-180** should be applied to an MBR with clean membranes at feed point or points that allows good mixing of the product with the mixed liquor. The specific control ranges will be specified by the technical representative and can also assist you in determining the appropriate dose rate for your system.

TYPICAL PROPERTIES

Appearance: Clear Yellow to Amber Liquid
Odor: Characteristic
Solubility in water: Complete
Specific gravity: 1.08 - 1.20
pH (as is) at 25 ^{0}C: < 3.0
(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. For more information, the Material Safety Data Sheet is available on request.

PACKAGING

AES-C-180 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
- Flocculants
- Disinfectants
- Antifoams
- Odor control
- Enzymes
- Bacterial Spores
- 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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