



PRODUCT DATA

AES-WI-311 OIL FIELD WATER INJECTION BIOCIDES

DESCRIPTION AND USE

AES-WI-311 is a concentrated, synergistic blend of active biocides, highly effective for the control of a broad spectrum of aerobic and anaerobic bacteria in oilfield water injection systems.

AES-WI-311 generally gives 100 % kill for both Aerobic and Anaerobic bacteria. AES-WI-311 can be successfully used in sea water, brine, fresh or produced waters and will combat slime forming and sulfate reducing bacteria and helps in controlling biofouling in water injection lines. These helps in keeping injection lines clean and increase injection efficiency.

AES-WI-311 is effective in wide pH range.

COMPATIBILITY

AES-WI-311 is a free flowing liquid at ambient temperature and is compatible with other water injection chemicals normally used such as Polyelectrolytes, Oxygen scavengers, Corrosion inhibitors and other alternating bactericides.

CHEMICAL FEEDING AND APPLICATION

AES-WI-311 is recommended as alternating biocide in oilfields. Generally continuous use of single biocides is not recommended as some immunity is developed in microbes. After stipulated period biocide is changed to different class of compounds, that's why most of the time set of two alternating biocides are recommended. AES-WI-311 finds use in water injection, water flooding and other surface equipments. AES-WI-311 is generally dosed after the

deoxygenation system to avoid excessive foaming.

The technical representative servicing the facility will specify the overall product application and the specific chemical dosages.

TYPICAL PROPERTIES

Appearance - Clear Colorless to Pale Yellow Liquid
Odor - Mild characteristic
Specific Gravity - 0.96 to 1.03
pH (undiluted) - 4.0 To 9.0

(All values approximate)

SAFETY AND HANDLING

DO NOT TAKE INTERNALLY. If ingested, drink several glasses of milk, egg whites, gelatin solution or water. DO NOT induce vomiting. GET IMMEDIATE MEDICAL ATTENTION. Contact with eyes causes irritation. If eyes are contacted, immediately flush with clear water for 15 minutes and if irritation persists, get medical attention. If skin is contacted, immediately wash with soap and water. Change and launder contaminated clothing before reuse. The use of goggles or face shield and rubber gloves when handling this product is recommended. For more information, the Material Safety Data Sheet is available on request.

PACKAGING

AES-WI-311 is packaged in 200 and 25-liter (nominal volume) non-returnable plastic 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



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