

ZI-CHEM 4220

Desalinator & Evaporator Foam Control

HIGHLIGHTS

ZI-CHEM 4220 is an aqueous solution of surface active compounds, which acts as a highly effective anti-foam in water systems that operated at temperatures greater than 55oC.

ZI-CHEM 4220 provides quick and effective foam suppression in seawater desalination, food fermentation, bottle cleaning, PCU cleaning, metal surface treatment; waste water treatment etc. It does not contribute to any deposit potential on heat transfer surfaces, is noncombustible, and may be fed with other treatment chemicals. By reducing surface tension, it is an essential component in preventing carryover of contaminants such as liquid phase water, organics, chlorides, and other non-condensable solids. This is often critical to the operational and maintenance aspects of steam using equipment downstream.

TYPICAL PROPERTIES

- Appearance: Colorless to light yellow transparent liquid
- Specific gravity: 0.9 – 1.1
- pH (neat) 5.0 – 7.0
- Viscosity: 400 – 1000 mPa.s
- Water dispersion: This product can disperse in water

PRIMARY APPLICATIONS

The normal feed rate for ZI-CHEM 4220 will typically range from 0 – 10 mg/L. The actual dosage for your system will depend on the operating characteristics of the plant and the chemistry of the water being treated at any given time.

Your ZI-TECHASIA technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

FEEDING & CONTROL

ZI-CHEM 4220 can't be diluted by adding water and can be directly added into foaming system. If you dilute the product with water, layering may happen and decrease the breaking and inhibiting foam performance, finally causing the cost increase.

APPROVAL

The components of ZI-CHEM 4220 are FDA acceptable in accordance with 21 CFR Sections 175.105 Adhesives for food packaging, 176.200 Coatings on food packaging, 176.210 Paper and board for food packaging, 173.310, Boiler water additives, 173.340 Defoaming agents in food processing. Also USDA G5 & G6 steam boiler applications in food industry.

THE BENEFITS

- Increase distillate production
- Higher Flux rates across membranes
- Eliminate downtime for cleaning
- High quality distillate

COMMON APPLICATIONS

- Power generating facility
- Oil Refinery
- Petrochemicals
- Food industries

PACKAGING

- 30kg pails
- 240kg drums
- 1,200kg IBC's or in bulk

HANDLING & SAFETY

ZI-TECHASIA maintains a database of material safety data sheets (MSDS) on all our products. These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel.

