

Evaporator Treat

Neutral product for the prevention of scaling in sea water evaporators.

- Product developed as part of the "QUADCHEM" program
- Prevents scale formation at temperatures up to 160 °C
- Reduces foaming and maintains optimum plant performance
- Environmentally safe product with approval for use when distilling to potable water tanks

Introduction

In the production of distilled water in seawater evaporators, there are many conditions which can cause scaling. In the evaporator the seawater is heated to the required temperature and then partially evaporated at atmospheric or low pressure; it then condenses and is collected as distillate. Since, however, the seawater contains large quantities of salt in solution, it is understandable that the heating and evaporation will very rapidly lead to scaling of the heat transfer surfaces. The scale deposits build up and lower plant efficiency by severely impairing the transfer of heat. This in turn considerably reduces the output. Scaling is prevented by the use of EVAPORATOR TREAT.

QC program

If the product is used as part of the "QUADCHEM" program, production is monitored as part of a "Water Management" system which includes useful information on maximizing plant efficiency.

Directions for use

EVAPORATOR TREAT is diluted with seawater or fresh water and is continuously injected into the evaporator. A dosage of 30 ml per ton of distillate is recommended for the prevention of scaling in seawater evaporators. The total dosage of EVAPORATOR TREAT to be used depends on the capacity and the operating conditions of the evaporator. The product should be injected via the evaporator inlet or the salt water supply line. The normal procedure is to use a (60 ℓ) dosing tank containing sufficient ready diluted FWG EVAPORATOR TREAT for 24 hours continuous operation.

Note: For the gradual removal of existing scale deposits at least twice the normal dosage must be used. Remove deposits of more than 2 mm with an acid cleaner like DESCALING LIQUID EXTRA.

Properties

Light brown coloured, neutral liquid. Miscible with salt and fresh water in any proportion. Odourless, non-flammable. Contains no volatile components; in practical terms: non-toxic when ingested in a single dose. Remains fully effective up to 160 °C. Does not corrode stainless steel, carbon steel, copper alloys, glass, rubber, plastics, painted surfaces, aluminium and aluminium alloys.

Specific Gravity (20 °C)	: approx. 1.10
Flash point	: none
pH (1% solution)	: 7.0

Nature of special risks and safety advice

In accordance with the latest E.C.C. Council directives this product is not subject to any official recommendations.

Voluntary recommendation:

In case of contact with eyes and/or skin, rinse immediately with plenty of water.

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