



## Rogun™ 2881E

- **Extremely fast antimicrobial action in conditions found within membrane separation plant**
- **Rapid degradation to relatively non-toxic end products. The dominant degradation pathway under use conditions involves reaction with nucleophilic substances or organic material found invariably in natural waters**
- **No adverse effects with repeated use**

### Description and Use

Rogun™ 2881E is a broad spectrum biocontrol agent that exhibits fast acting bactericidal activity at low dose levels. Application of Rogun 2881E is by injection into the feed stream during operation of the membrane plant while permeate is discharged to drain. Normal dosage time is 30 minutes per application.

Rogun 2881E is designed to be used as the maintenance procedure in a three step programme to control biological growth in membrane separation equipment where biofouling potential is considered to be an operational problem. The frequency of the Rogun 2881E application should be determined by a study of the normalised system performance, taking into consideration the level of biological activity in the feed, permeate and reject streams. This evaluation can be carried out by GE Betz personnel to determine the appropriate dose level, application frequency and injection points.

### Application

For optimum results, the system should be cleaned with Bioclean 882 or Bioclean 442, and Bioclean 511 or IPA 411 prior to start of the Rogun 2881E treatment regime.

Check with your local GE Betz representative to determine the specific conditions in your system in order to define the optimum dosage rate and cleaning procedure. In some systems modifications to the clean in place facilities may be required to ensure the optimum cleaning results are achieved.

Most non-metallic tank materials including polyethylene, polypropylene, Saran™, and Teflon™, exhibit good, long-term resistance to Rogun 2881E. Acceptable pump components include SS 316, Kynar™, Teflon™, CPE™, and Viton™.

### Dosing Instructions

Calculate injection rate as follows.

*Example:*

Injection Rate = plant feed, m<sup>3</sup>/h x desired ppm of Rogun 2881E

The permeate of the plant should be directed to drain prior to the application of the Rogun 2881E to the feed stream. Rogun 2881E should be applied direct from the drum and should not be diluted prior to injection. It must be injected at full strength.

Discontinue injection and rinse system for 15 minutes. Check system permeate conductivity. Rinse until permeate conductivity returns to within membrane specification under normalised conditions. Return system to on-line operation.

Please do not hesitate to contact GE Betz with any questions regarding the use or application of this product.

### **Packaging Information**

Rogun 2881E is a liquid formulation and is available in a wide variety of customised containers and delivery methods. Contact your local GE Betz representative for details.

### **Safety Precautions**

A Material Safety Data Sheet containing detailed information relative to this product is available upon request.