

## CC KLEAN 018 MEMBRANE CLEANER

- **Suitable for use with all acid-resistant membranes**
- **Buffered to maintain a pH of 1,8 (1%)**
- **Liquid cleaner giving faster mixing time**
- **Inhibits bacterial growth**

### DESCRIPTION AND USE

CC KLEAN 018 is an effective, acid cleaning agent which can be used for all types of acid-resistant membranes. The product is suitable for use in food processing industry.

CC KLEAN 018 can be used for inactivation of enzyme-containing cleaning agents. The product is safe in use and developed with care for the environment as it does not contain N, P and Halogens.

### APPLICATION

For the best results, CC KLEAN 018 should be used in combination with Copenhagen Chemicals high pH cleaners f.ex. CC KLEAN 120 or CC KLEAN 125.

CC KLEAN 018 is used in the acidic phase and is very good at removing inorganic coatings, including calcium and minerals, as well as for dissolving organic coatings, such as fat and protein.

CC KLEAN 018 is also ideal for soaking for the purpose of conservation (inhibits bacterial growth).

Contact your local Copenhagen Chemicals partner to determine the correct dosage rate and cleaning procedure that will give optimal performance in your system.

### DILUTION

The typical dilution ratio for the product is between 0,4-3% (w/w) based on the total cleaning system volume, including tank, pipework, filtration and membrane vessels and elements.

**DO NOT BLEND WITH CHLORINATED PRODUCTS**

### GENERAL INSTRUCTIONS

Always start by inspecting the cleaning tank, any hoses and replace the filter elements in the cleaning loop with new cartridges.

Fill the cleaning tank with permeate or de-ionized water. Add the required amount of CC KLEAN 018 to the cleaning tank and mix the solution. Heat the cleaning solution to the temperature range 30-70 °C.

Circulate the solution through the membrane arrays in the feed direction for 20-40 minutes at the flowrate recommended by the membrane manufacturer.

In case of heavy fouling, the first return flow should be led to drain to prevent re-deposition of the removed fouling. This could be up to 20% of the cleaning tank volume.

In a multi-array system, the best results will be achieved by cleaning each array separately.

If the cleaning solution becomes turbid, discolored or the pH moves out of the recommended range, the solution must be drained and a new cleaning solution prepared before continuing the cleaning process.

After the cleaning process is done, the system should be rinsed with permeate, if possible, before being returned to service.

## **PACKAGING INFORMATION**

CC KLEAN 018 is a liquid blend that is delivered in 22, 220 or 1.000 kg as standard packaging. Upon request, the product can be delivered in other quantities. Contact your Copenhagen Chemicals partner for details.

## **MATERIAL SAFETY DATA SHEET**

A material Safety Data Sheet that contains detailed information and safety precautions about this product is available upon request.