

## CC KLEAN 095E

### ENZYMATIC MEMBRANE CLEANER

- **Gentle, highly efficient enzymatic cleaner**
- **Powder based product**
- **The special combination of active tensides and enzymes effectively dissolves proteins and other organic coatings.**
- **Ideal for soaking over weekend.**
- **No adverse effect with repeated use.**

#### DESCRIPTION AND USE

CC KLEAN 095E effectively dissolves protein and other organic coatings.

CC KLEAN 095E is an enzymatic product and is therefore extremely gentle to the membrane.

CC KLEAN 095E is effective in water of any hardness due to the special formulation of the product.

CC KLEAN 095E is also ideal for soaking for the purpose of effective dissolving of protein and other organic materials. May be left in the system during the weekend.

The product can also be used in other industries and for other applications, please consult your local Norlex Chemicals partner.

#### TYPICAL APPLICATIONS

CC KLEAN 095E is a gentle and highly effective enzymatic membrane cleaning product.

It is a powder product, which is used particularly in the dairy and meat industry

#### PRODUCT DATA

Colour: White  
Physical state: Powder, dust  
Odour: Slight odour  
Bulk density: ~0,85 kg/l  
pH (Aq sol) 1%: ~9,5

#### FEED REQUIREMENTS

**Feed System** - This product can be used in conjunction with CIP cleaning equipment supplied by the manufacturer of the system. The product must be dissolved before being dosed into the system to be cleaned.

**Dilution** – The product must be dissolved prior to introduction into the membrane system. The recommended dilution is a 0,5-2,5% strength solution.

**Temperature** – As increased temperature improves the cleaning result; it is recommended that the cleaning solution be heated to at temperature of 30 – 50 °C.

**Materials Compatibility** – Corrosion resistant equipment, such as PVC, should be used for the storage and preparation of this product. Pumping materials coming in contact with the diluted products should also be corrosion resistant.

**pH** – In 1% dilution, pH will be approx. 9,5.

#### PACKAGING INFORMATION

CC KLEAN 095E is a powder is available in 12,5 kg plastic bags.

#### GENERAL INSTRUCTIONS

The following general cleaning procedure can be followed.

1. Inspect cleaning tank, hoses, and cartridge filters. Clean tank and flush hoses if necessary. Install new cartridge filters.

2. Fill cleaning tank with RO permeate or DI water. Turn on agitator or tank recirculation pump.

3. Slowly add CC KLEAN 095E to cleaning tank (0,25-1,25 kg of product for every 50 L water) and allow to mix thoroughly.

4. Heat solution to a temperature of 30-50 °C, or the maximum allowable temperature for the membrane if this is lower than recommended interval. If membrane manufacturer's recommendation is not available, contact your Norlex Chemicals partner.

5. Check solution pH. The solution pH should be between 9,0 – 10,5. If pH is too low, adjust pH accordingly.

7. Circulate solution through one stage at a time in the direction of feed flow for 20-60 minutes. Circulate at the flow rate recommended by the membrane or system manufacturer. If the manufacturer's recommendation is not available, contact your Norlex Chemicals partner. Pressure should be low enough so that no permeate is produced during cleaning, but always less than 4 bar.

In cases of heavy fouling, the first return flow (up to 20% of the cleaning tank volume) should be diverted to drain to prevent redeposition of removed solids.

For optimum results, each stage must be cleaned separately in a multistage system.

8. If the first stage cleaning solution becomes turbid or discolored, dump the tank and prepare a fresh cleaning solution before proceeding. If

solution pH or temperature moves out of the recommended range, a new solution should be prepared. In any event, a new cleaning solution should be prepared for each stage.

9. Rinse with permeate before returning system to service.

10. When returning unit to service, divert product water to drain until any residual cleaning solution has been rinsed from system.

11. After cleaning with CC KLEAN 095E, all surfaces that will come in to contact with food and beverage products must be cleaned thoroughly with water (drinking water quality). To achieve complete inactivation of any residual enzymes, a cleaning with CC KLEAN 015 or CC KLEAN 018 is recommended.

## SAFETY PRECAUTIONS

A Safety Data Sheet containing detailed information about this product is available upon request.