

## BONDERITE C-MC 030

Known as P3-Ultraperm 030

October 2015

### PRODUCT DESCRIPTION

BONDERITE C-MC 030 provides the following product characteristics:

<b>Technology</b>	Cleaner
Product Type	Alkaline Cleaner
<b>Application</b>	Membrane Cleaner
Components	BONDERITE C-MC 012 (pre-cleaning, if required) or BONDERITE C-MC 075 (pre-cleaning, if required)

BONDERITE C-MC 030 is used for the cleaning of alkali resistant membranes in ultrafiltration systems.

### Composition

- Complexing agents
- Alkali
- Salts of organic acids
- Biodegradable anionics, nonionics and potentially cationics

### TECHNICAL DATA

Appearance	white to brownish powder*
pH-value (1% in DI water)	11.4 to 12.6
Solubility (20 °C), g/L	~200

\*depending on storage conditions

### DIRECTIONS FOR USE

#### Preliminary Statement:

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

#### Operating Data:

Concentration, g/L	5 to 15
Temperature, °C	40 to 70
Treatment time, min.	30 to 60

#### Cleaning Procedure:

1. Stop filtration.
2. Pre-rinsing with water (If the bath contains silicate a pH-value higher than 11 must be guaranteed. The use of BONDERITE C-MC 012 is highly recommended).

3. Circulation of a solution of 0.5 to 1.5 % BONDERITE C-MC 030. Hot solutions (40 to 70 °C) improve the cleaning efficiency. The cleaner solution should be circulated for 30 to 60 minutes.
4. Rinsing with water till neutral pH-value.
5. Determination of the flux rate (praxis conditions). The cleaning is successful if the pre-determined flux rate is reached again.
6. In case of low flux rate the alkaline cleaning can be repeated. Also a follow-up treatment using an acid membrane cleaner (BONDERITE C-MC 075 ) may be necessary.
7. After each cleaning rinsing with water till neutral pH-value and determining the flux rate.
8. Recommendations of the membrane manufacturer on cleaning procedures (e. g. pH-stability) should be followed.

#### Titration:

TF = 1.2 g/ (L\*mL)

Titration of 50 mL of the cleaner solution (using 0.5 mol/L hydrochloric acid, methylorange).

#### Calculation:

mL HCl \* 1.2 g/(L\*mL) = concentration of cleaner solution in g/L.

#### Effluent Information:

To be neutralized before dumping. Product contains complexing agents. Please refer to your local water authorities.

#### Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

**Hazards identification**  
**Transport information**  
**Regulatory information**

#### Storage

Recommended Storage Temperature, °C	5 to 40
Shelf-life, months (in unopened original packaging)	24

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