

BONDERITE C-MC 012

Known as P3-Ultraperm 012

November 2019

PRODUCT DESCRIPTION

BONDERITE C-MC 012 provides the following product characteristics:

Technology	Cleaner
Product Type	Alkaline Cleaner
Application	Membrane Cleaner
Components	BONDERITE C-MC 012 BONDERITE C-MC 010 or BONDERITE C-MC 030

BONDERITE C-MC 012 is used for the cleaning of alkali resistant membranes in ultrafiltration- and reversed osmosis systems.

Composition:

- Alkali
- Complexing agents
- Phosphates

TECHNICAL DATA

Appearance	white, crystalline powder
pH-value (1% in DI water)	12.5 to 13.5
Solubility (20 °C), g/L	~450
Cloud point: (10 g/L), °C	>100

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, pH-value >11
Temperature, °C	40 to 60
Treatment time, min.	30 to 60
Treatment time, min	depending on surface area, 2x 15 min to 2x 45 min

Cleaning Procedure:

1. Stop filtration.

2. **Important:** NO PRE-RINSE WITH WATER
3. Pre-rinsing with BONDERITE C-MC 012
4. Circulation of a 0.5 to 1.0 % alkaline cleaner solution (BONDERITE C-MC 010 or BONDERITE C-MC 030)
5. Rinsing with water till neutral pH-value.
6. Determination of the flux rate (praxis conditions). The cleaning is successful if the pre-determined flux rate is reached again.
7. Recommendations of the membrane manufacturer on cleaning procedures (e. g. pH-stability) should be followed.

Titration:

TF = 0.455 g/(L*mL)

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

Calculation:

mL HCl * 0.455 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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