

BONDERITE C-MC 091

Known as P3-Ultraperm 091

September 2019

PRODUCT DESCRIPTION

BONDERITE C-MC 091 provides the following product characteristics:

Technology	Cleaner
Product Type	Alkaline Liquid Cleaner
Application	Membrane Cleaner

Cleaning of alkali resistant membranes.

TECHNICAL DATA

Composition Alkali, complexing agents,

biodegradable anionics

Appearance: clear liquid

Density: 1.365 to 1.405 g/cm³ (20 °C) pH: 12.4 to 13.2 (1%, DI-water)

Solubility: water soluble

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.

Application:

Concentration, g/L: 10 to 20 Temperature, °C: 50 to 70 Time of Treatment, min: 30 to 60

Materials: BONDERITE C-MC 091

BONDERITE C-MC 012 (if

required)

BONDERITE C-MC 075 (if

required)

Cleaning Procedure:

- 1. Stop filtration.
- 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 % BONDERITE C-MC 091. 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.
- 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 determinating the flux rate.
- 8. Recommendations of the membrane manufacturer on cleaning procedures (e. g. pH-stability, temperature) should be followed.

Titration:

TF = 1.8 g/(L*mL)

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

Calculation:

mL HCl * 1.8 g/(L*mL) = concentration of BONDERITE C-MC 091 in g/L.

Effluent Information:

To be neutralized before dumping. Please refer to your local water authorities.

Storage:

Recommended storage temperature, °C -5 to +40 Shelf-life, months 12 (in unopened original packaging)

Classification:

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

Hazards identification Transport information Regulatory information



ADDITIONAL INFORMATION

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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