

**Beverage Industry**

Application:

Dealcoholisation of Beer

Typical residues:

Proteins, Polyphenols, Glucans, Minerals






Specific application area:

Multiple membrane manufacturer  
 Cellulose  
 Non-specific module type

General information:

Limitations, please always confirm with membrane suppliers' technical bulletin.  
 pH 2.0 –12  
 Temperature 0-50 °C  
 Chlorine 100 ppm at maximum 20°C  
 Peracetic acid 100 ppm at maximum 20°C  
 Hydrogen Peroxide 1000 ppm at maximum 20°C

Cleaning interval: usually only in cases of serious problems with capacity or microbiology

Cleaning Procedure & Chemicals	%	°C	min.	Notes
<b>After Standard cleaning (cleaning program 56)</b>				
 <b>Intermediate Rinse</b> <b>Water or permeate</b>		<b>Cold</b>		Until concentrate runs clear. Rinse temperatures may be as high as process temperature, but never higher.
 <b>Solution for storage</b> <b>P3-ultrasil 73</b>	<b>1,5</b>	<b>25°C</b>	<b>max. 3 month</b>	
 <b>Intermediate Rinse</b> <b>Water or permeate</b>		<b>Cold</b>		Rinse temperatures may be as high as process temperature, but never higher.
 <b>Alkaline Cleaning</b> <b>P3-ultrasil 130</b>	<b>0.5</b>	<b>40</b>	<b>20</b>	
 <b>Final Rinse</b> <b>Water</b>		<b>Cold</b>		Rinse temperatures may be as high as process temperature, but never higher.



**Important additional remarks!**

Due to the diversity of materials and applications the information given above represents only a non binding guideline and is not intended to supersede the manufacturers specifications, limitations and recommendations. It is compulsory to follow the manufacturers limitations, especially concerning pH and temperature stability of the materials. The cleaning process should be individually optimised.