TECHNICAL DATA SHEET

Tubular membrane 66.01 i5

Document No.

Polyvinylidene fluoride (PVDF)

32-3100-83-01-03-001

Type of filtration: Membrane material: Membrane diameter (internal):

5.5 mm

General properties:

Ultrafiltration

- Asymmetric membrane structure
- Inside-out filtration
- · Highly efficient hydrophilic tubular membrane
- High permeability
- Excellent anti-fouling characteristics
- High pressure stability
- Excellent chemical resistance
- Optimized for B-SMART® technology

Fields of application:

Industrial wastewater and process stream treatment

- · Sludge separation in anaerobic and aerobic membrane bioreactors (MBRs)
- Zero Liquid Discharge (ZLD)
- RO brine treatment
- Water reuse or water recycling
- Protein concentration/separation

Performance characteristics:			
Membrane type:	66.01 i5	Notes:	
Clean water flux [l/m ² ·h·100 kPa]	approx. 40	RO water, 25°C	
Transmembrane pressure [kPa]*	-20 to +800		
Molecular weight cut-off [Da]	15,000		
pH range of application [-]	2-10	at 25°C	
Max. temperature [°C]*	60 at 600 kPa		

* Note: the maximum values for pressure and temperature should not be exceeded.

Membrane lifetime is influenced by:

- Operating conditions under normal operation.
- Cleaning, especially regarding the combinations of maximum values of pH, concentration, pressure and temperature.







Chemical resistance

Process chemicals

The chemical resistance of a membrane is strongly dependent on the process conditions. The following ratings are to be taken as general guidelines only.

	Poorly resistant	Highly resistant
Acids (pH > 2)		
Bases (pH ≤10)		
Oils		
Aliphatic alcohols		
Aliphatic hydrocarbons		
Halogenated hydrocarbons		
Aromatic hydrocarbons		
Polar organic solvents		
Organic esters, ether, ketones		

Depending on the nature and degree of contamination, membrane cleaning may be carried out using the following chemicals. The membrane lifetime may be reduced when values [placed in brackets] are exceeded.

- Hydrogen peroxide [max. 1000 ppm]
- Sodium hydroxide [pH \leq 11]
- Nitric acid $[pH \ge 2]$
- Phosphoric acid $[pH \ge 2]$
- Citric acid
- · Oxalic acid
- Enzymes

Membrane storage

Cleaning chemicals

See *operation manual*. New membranes can be stored in their original delivered condition for up to two years.

Membrane must be stored dry, well-packed in a cool, frost-free, dark place.

Used membranes must be preserved in a clean state. See *operation manual*.

The information and data contained herein are deemed to be accurate and reliable and are offered in good faith, but without guarantee of performance. Berghof Membrane Technology GmbH assumes no liability for results obtained or damages incurred through the application of the information contained herein. Customer is responsible for determining whether the products and information presented herein are appropriate for the customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Specifications subject to change without notice. Berghof Membrane Technology GmbH is a wholly owned company of Berghof GmbH. All rights reserved. © 2020 Berghof Membrane Technology GmbH



Membranes

Think outside the Box

Berghof Membrane Technology GmbH Arbachtalstraße 26, 72800 Eningen, Germany Specifications subject to change without notice. www.berghofmembranes.com