

# X-FLOW R 0950

## CLASSIC REVERSE OSMOSIS MEMBRANE

### MEMBRANE DATASHEET

ARTICLE CODE: ODI7600

#### BASIC CHARACTERISTICS

- General purpose cellulose acetate membrane
- Tubular membrane available in 14.4 mm
- Developed for use in a variety of reverse osmosis processes in industrial food and non-food applications
- Available in three standard qualities differing in salt rejection and flux

#### PERFORMANCE DATA

Parameter	Unit	R 0950	Remarks
Initial flux (0.35 w% NaCl)	l/m <sup>2</sup> .h	40 ± 5	0.35 w% NaCl at pH 6
Rejection (0.35 w% NaCl)	%	95 ± 1	25 °C and 4 MPa
Transmembrane pressure	kPa	-20 .. + 4000	
pH		3 - 7	at 25 °C
Chlorine exposure	ppm	0.5	at 25 °C
Temperature	°C	1 - 40	

Operation of membranes at any combination of maximum limits of pH, concentration, pressure or temperature, during cleaning or production, will severely influence the membrane lifetime.

#### APPLICATIONS

- Recovery of process water from middlings in corn starch production
- Reduction/removal of COD/BOD from potato starch waste water or corn waste water
- Treatment of waste water with high COD and BOD load and heavy metal contamination
- Treatment of surplus water from domestic waste dumps (leach water)
- Direct treatment of surface water without any pretreatment

#### SOLVENT RESISTANCE

Since the resistance of the membrane to solvents strongly depends on the actual process conditions, the indications given below should only be considered as guidelines.

Acids	-
Bases	-
Organic esters, ketones, ethers	--
Aliphatic alcohols	+
Aliphatic hydrocarbons	+
Halogenated hydrocarbons	--
Aromatic hydrocarbons	--
Polar organic solvents	+/-
Oils	+

#### MEMBRANE COMPOSITION

- Membrane material composed of cellulose diacetate
- Membrane carrier is a composite polyester non-woven

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#### CLEANING

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Depending on the nature of the feed solution the following cleaning agents can be chosen:

Chemical	NaOCl (active chlorine)	50 ppm max.
	H <sub>2</sub> O <sub>2</sub>	400 ppm max.
	Phosphoric acid	pH ≥ 2
	Sodium tri-phosphate	
	Citric acid	< 1%
	Enzymatic compounds	

It is recommended to keep the pH between 2 and 8 and not to exceed a temperature of 35 °C during cleaning and/or disinfection.

If those standard cleaning techniques fail to remove the foulants, more concentrated cleaning solutions can be tried. Please contact X-Flow for recommendations.

It has to be stressed, however, that no warranty can be given on the efficiency of any cleaning nor on the membrane performance after such cleaning attempts.

#### STORAGE

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New membrane modules can be stored as supplied.

Membrane modules should be stored in a dry, normally ventilated place, away from sources of heat, ignition and direct sunlight. Store between 0 and 40 °C.

The membrane modules should not be subjected to any freezing temperatures.

After use, RO membranes need to be stored wet at all times.

In case of long-term storage, membranes should be cleaned before the disinfection step is carried out.



#### X-FLOW BV

P.O. BOX 739, 7500 AS ENSCHEDE, NETHERLANDS [WWW.X-FLOW.COM](http://WWW.X-FLOW.COM)

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