

# X-FLOW C 0995

## CLASSIC REVERSE OSMOSIS MEMBRANE

### MEMBRANE DATASHEET

ARTICLE CODE: SDK8600

#### BASIC CHARACTERISTICS

- FDA approved thin film composite membrane
- Tubular membrane available in 14.4 mm
- Developed especially for heavy duty use in food and non-food applications
- Commercially proven record of reliability in a wide range of processes

#### PERFORMANCE DATA

Parameter	Unit	C 0995	Remarks
Initial flux (0.35 w% NaCl)	l/m <sup>2</sup> .h	50 ± 10	0.35 w% NaCl at pH 6
Rejection (0.35 w% NaCl)	%	99.0 ± 0.5	25 °C and 4 MPa
Transmembrane pressure	kPa	-20 .. + 6000	
pH		2 - 10	at 25 °C
Chlorine exposure		do not expose	
Temperature	°C	1 - 70	at pH 3-9 and 4000 kPa

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

- Water purification and waste treatment
- Recovery of process water
- Reduction/removal of COD/BOD
- Heavy metals and salts concentration
- Purification of surplus water (leach water) from domestic waste disposal sites
- High quality process water (boiler feed water, etc.) production from surface water without 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, pH > 2	+
Bases, pH < 10	+
Organic esters, ketones, ethers	--
Aliphatic alcohols	+
Aliphatic hydrocarbons	+
Halogenated hydrocarbons	--
Aromatic hydrocarbons	--
Polar organic solvents	--
Oils	+

#### MEMBRANE COMPOSITION

- Membrane material composed of thin film polyamide/polysulfone composite
- Membrane carrier is a composite polyester woven/non-woven

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#### CLEANING

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

Chemical	EDTA	pH ≤ 11
	NaOH	pH ≤ 11
	Nitric acid	pH ≥ 1
	Phosphoric acid	pH ≥ 1
	Citric acid	1%
	Enzymatic compounds	Ultrasil 50,53,30 (Henkel)
	Ultrasil 11/VR 2688-2 (Henkel)	pH ≤ 11, 0.1-0.3%
	Oxonia 201/AKTIV (Henkel)	0.1%; at 25 °C max.

It is recommended to keep the pH between 1 and 11 and not to exceed a temperature of 40 °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.

Sodium hypochlorite or generally free chlorine has a destructive effect on the membrane and contact should completely be avoided. The use of other oxidants should preferably be avoided.

#### STORAGE

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

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