

TECHNICAL DATA SHEET

CHEMLINE M1

ISO 9001 : 2000

ACIDIC CONCENTRATE FOR CLEANING OF RO MEMBRANES

Description

chemline M1 is liquid concentrated product based on organic acids and fluoride salt.

APPLICATIONS

Even if reverse osmosis system is being operated properly, membranes can get fouled and partly lose their properties. Subsequently the capacity of the system and quality of the demineralised water are reduced. The reason of this can be inorganic salts, biological substances, colloidal particles, undissolved organic compounds.

CHEMLINE M1 is acidic concentrate specially designed for membranes cleaning from inorganic impurities induced by carbonates, sulfates and silicates of calcium, barium, strontium and iron.

CHEMLINE M1 cleans polyamides and acetate cellulose membranes pores, recovers their elasticity and high capacity.

CHEMLINE M1 provides long life time of reverse osmosis system and reduces operating costs.

advantages

- suitable for all types of membranes
- stable and effective cleaner for most of inorganic impurities,
- cleaning allows to prolong membranes life time.
- easily used product

Physical data

- Appearance.....colorless to pale yellow liquid.
- Active materials.....organic acids, fluoride salts
- Odor.....characteristic
- Density (at 20°C)..... g/cm³
- pH.....
- Soluble in water.....complete

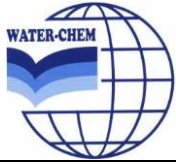
Dosage and feeding

Equipment capacity decreasing for 10% and pressure difference between system's input and output increasing for more than 15% indicates about necessity of system cleaning.

CHEMLINE M1 is concentrated product, which has to be diluted with water at ratio 1:10. Special tank (polypropylene, fiberglass), corrosion resistant circulating pump and valves are used for cleaning. Duration of cleaning solution circulating is from 20 minutes up to 2 hours. Temperature of cleaning solution has to be not higher than 40°C.

After cleaning with concentrate **CHEMLINE M1**, it is necessary to neutralize the whole system before reuse.

For the best result, **CHEMLINE M1** is usually used after cleaning with **CHEMLINE M2** (alkalinity concentrate)



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Safety

chemline M1 is toxic by ingestion. Do not take internally. If ingested, drink as plenty of water as possible. Do not induce vomiting and get medical attention immediately. Contact with eyes cause severe irritation or injure. If eyes are contacted, immediately flush with clear water for 15 minutes and get medical attention. For skin contact, wash with soap and water.

Packing and handling

chemline M1 is packaged in 20 kg plastic drums. Other packing available by request.

Store in well-ventilated, cool, dry place (5 – 30°C)

Shelf life is two years. Use within 4 weeks once opened.