



TECHNICAL DATA SHEET

CHEMLINE M2

ISO 9001 : 2000

CHELANT Cleaning for RO MEMBRANES

Description

chemline M2 is a concentrated formulations with a anionic detergent, EDTA and other organic compounds... It is designed in use as chelant cleaning for RO membranes. The product is particularly effective in cleaning for reverse osmosis with scale of inorganic salts such as CaCO_3 , CaSO_4 , transition metal oxides, Silica, as well as biofilm/slime and organic scale.

APPLICATIONS

Even if reverse osmosis system is being operated properly, membranes can get fouled and partly loose 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 M2 is alkaline concentrate specially designed for membranes cleaning from in inorganic impurities induced by carbonates, sulfates and silicates of calcium, barium, strontium and iron.

CHEMLINE M2 cleans polyamides and acetate cellulose membranes pores, recovers their elasticity and high capacity.

CHEMLINE M2 provides long life time of reverse osmosis system and reduces operating costs.

advantages

- Suitable for all types of membranes.
- Effective and stable cleaning concentrate
- Prolongs the life time of RO equipment.
- easily used.

Physical data

- Appearance.....colourless to pale yellow liquid
- Odor.....characteristic
- Flash point.....
- Specific gravity.....
- pH.....11.5 ± 0.5
- Freeze Point.....

Dosage and feeding

CHEMLINE M2 is a concentrate product, which should be diluted with demineralized water, normally in ratio from 1: 3 to 1: 6.

The dosage of **chemline M2** depends on the depth of scale and the kind of scales. Recommendations for dosages and overall system operating conditions will be made by qualified technicians.

Special tank (plastic, polypropylene, fiberglass), corrosion resistant circulating pump and valves are used for cleaning. Duration of cleaning solution circulating is from 1- 4 hours. Temperature of cleaning solution should not be higher than 40°C. The cleaning finishes after pH in the system is stable.



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Safety

After cleaning with concentrate **CHEMLINE M2**, it is necessary to recirculate the whole system with demineralized water (2times, 10-15 min./times) before reuse. If the RO equipment is fouled by inorganic scales, **CHEMLINE M2** is usually used in combination with **CHEMLINE M1** (acidic cleaning concentrate) to complete the cleaning process. If the RO system is fouled by both inorganic and organic impurities (oil, undissolved organic compounds...) **CHEMLINE M6** (alkaline cleaning concentrate) can be added in order to clean these organic scales. The optimal dosages will be made by qualified technicians.

chemline M2 may be toxic by ingestion and because of its high acidic property. Do not take internally. If ingested, drink at least two (02) glasses of water and get medical attention. Do not induce vomiting. Contact with eyes cause severe irritation or burns. 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 M2 is packed in 25kgs plastic drums. Other packing available by request.

chemline M2 is registered as safe and consequently does not require any specific precautions.

However, take the usual precautions necessary when handling alkaline liquids. Shelf life is one year. Use within 06 months once opened