



**U.S. STERILES**  
**GRAMICID®**

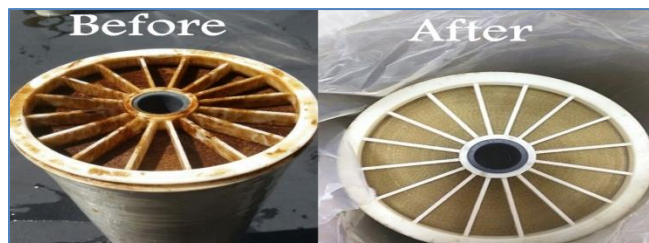
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**GRAMICID-122**  
**(CLEANING CHEMICAL FOR REVERSE OSMOSIS SYSTEMS)**  
**ACID Based Cleaner**



**GRAMICID-122** is specially formulated blend of cleaners for the effective removal of carbonate, metal hydroxides and sulfate scales of Barium, Strontium and Calcium in reverse osmosis systems.

**SPECIFICATION:**

Appearance	Colorless Liquid
pH (as is)	1 pH
Solubility	100% water soluble

**BENEFITS:**

- GRAMICID-122 is a low pH liquid formulation to remove calcium carbonate, metal hydroxides & sulfate scales of calcium, barium and strontium.
- Adding GRAMICID-122 in to any membrane cleaning solution results in the achievement of better scales removal, system performance and membrane life.
- Liquid cleaner which allows shorter mixing time.
- Low foam formulation.
- Cost effective program for sulfate/carbonate scales removal.
- No adverse effects with repeated use of solution.

**CLEANING PROCEDURE:**

- Prepare the stock solution of Gramicid-122 using DM water or permeate water only.
- Use dilution ration of 2% to 5% in proportion of the total volume of cleaning system.
- Flush the membranes using permeate water or DM water.
- Circulate at the flow rate recommended by the membrane manufacture depending upon the membrane size. Pass the prepared cleaning solution through membranes, Circulate the cleaning solution for 1-2 hr. If the solution becomes turbid, prepare fresh solution and re-circulate through membrane.
- Soak the membrane for 30 – 60 minute.
- In multi pass systems, best results will be achieved if each pass is cleaned individually.
- Drain out the cleaning solution and flush the system with DM or permeate water.
- Restart the plant.

**There may be some variation in procedure depending on system condition.**

**PACKING: GRAMICID-122 is available in 30Kg and 50Kg HDPE carboys.**