

PERFORMANCE BENEFITS:

- A powerful dechlorinating agent to help protect polyamide membranes from permanent damage.
- Compatible with polyamide and cellulose acetate membranes.
- Can be used to preserve membranes in storage or as an on-line biostat for membrane systems.
- A 30% sodium bisulfite (NaHSO_3) solution containing 20% active sulfur dioxide (SO_2).
- Extremely economical when compared to other methods of chlorine removal.

Please consult your sales representative for further technical or logistical details and always review the SDS before use to ensure suitable safety precautions are followed.

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AntiChlor 30 liquid is a dechlorinating agent used as a mild, non-oxidizing biostat or injected into reverse osmosis (RO) feedwaters to protect polyamide membranes from permanent damage caused by chlorine. AntiChlor 30 is a 30% (minimum) solution of sodium bisulfite. It is a food-grade reducing agent and is certified by NSF International for use in systems producing drinking water.

INSTRUCTIONS FOR USE
Dechlorinating

The use rate of AntiChlor 30 for free chlorine is 4.5 mg/l of neat AntiChlor 30 for each mg/l of free chlorine. The neat use rate for combined chlorine (monochloramine) is 6.1 mg/l of neat AntiChlor 30 for each mg/l of combined chlorine.

The following table lists AntiChlor 30 feed rates as a function of feedwater chlorine concentration. The table bases values upon a feed rate of 100 gpm (22.7 m³/hr) and a 100% theoretical required dosage.

Free or Combined Chlorine mg/l as Cl ₂	Free Chlorine Feed Rate ml/minute	Combined Chlorine Feed Rate ml/minute
0.2	0.28	0.38
0.5	0.69	0.94
1.0	1.39	1.88
1.5	2.10	2.81

Multiplying the AntiChlor 30 feed rate by 1.2 provides a 20% safety factor. Always confirm chlorine removal by direct chemical analysis.

Sanitizing

In systems where non-oxidizing biocides cannot be used, AntiChlor 30 liquid can be applied as an alternative. Recirculate a 1% wt/wt solution through the membrane system for 30-60 minutes. Follow with an alkaline cleaner, such as RoClean P111 or RoClean L211, to remove organic products produced by the inoculation of bacteria and other microorganisms.

Preserving

Recirculate a 3% wt/wt solution through the membrane system for 30 minutes. Ensure the system is completely full. Close the system valves to prevent draining. Check pH weekly and replace solution if pH changes.

PRODUCT INFORMATION
Stability

When diluting the solution, use the minimum agitation necessary to achieve proper mixing. The freeze point for this formulation is 25-32°F (-3.6-0.0°C).

Packaging and Storage

Standard regional pack sizes are listed below. Information on drumless or bulk tanker delivery is available on request. Product should be stored at a temperature greater than 41°F (5°C) to prevent seed crystal formation.

SPECIFICATIONS

Appearance: Clear, colorless to pale yellow liquid

pH (as supplied): 3.5-5.5

Specific gravity @ 20°C: 1.15-1.35

PACKAGING FORMAT	AMERICAS/ASIA	EMEA
Pail	45 lb	25 kg
Drum	500 lb	250 kg
IBC tote	2500 lb	1250 kg