KURIVERTER™ AC-427

Avista™ Odorless Liquid Chlorine Remover

Product Description

KURIVERTER AC-427 is a modified, odorless liquid sodium bisulfite formulation used to remove free and combined chlorine from reverse osmosis (RO) feedwaters. It is stabilized to prevent off-gassing, making it ideal for indoor installations.

KURIVERTER AC-427 removes chlorine more effectively than activated carbon beds, including bacterial growth and carbon fines in downstream feedwaters.

KURIVERTER AC-427 is NSF certified. It is compatible with polyamide membranes from all major manufacturers.

Features & Benefits

Odorless– Less indoor storage concerns due to low odor formulation, and stabilization to off-gassing.

Economical – More resistant to oxidation with air, improves shelf life stability.

NSF/ANSI 60 – Approved for use as an additive for reverse osmosis membrane treatment where the permeate is intended for potable or drinking water use.

NSF
Certified to NSF/ANSI/CAN 60

Physical Characteristics

Appearance:	Clear to Yellow Liquid
Spec. Gravity (20°C):	1.10 – 1.35
pH (20°C):	5.0 – 6.4
Water Solubility:	Complete
Freeze Point:	32 - 36°F (0-2.2°C)

Revision Date: April 1, 2025

Dosage and Control

The use rate of KURIVERTER AC-427 for free chlorine is 6 mg/l of neat product for each mg/l of free chlorine. The neat use rate for combined chlorine (monochloramine) is 8.2 mg/l of neat product for each mg/l of combined chlorine.

The following table lists KURIVERTER AC-427 feed rates as a function of feedwater chlorine concentration. The table bases values on feed rate of 100 gpm (22.7 m^3/hr) and a 100% theoretical required dosage.

FREE OR COMBINED CHLORINE mg/l as Cl2	FREE CHLORINE FEED RATE ml/minute	COMBINED CHLORINE FEED RATE ml/minute
0.2	0.37	0.50
0.5	0.95	1.26
1.0	1.85	2.52
1.5	2.78	3.78

It is recommended to multiply the KURIVERTER AC-427 feed rate shown above by 1.2 to provide a 20% safety factor. Always confirm chlorine removal by direct chemical analysis.

Consult your Kurita representative for optimum dosage for your specific needs.

Feed and Dilution

KURIVERTER AC-427 is formulated to be injected neat and should not be diluted for use. If dilution is required please contact your Kurita representative for guidance.

Available Packaging

Net weight:

Tote: 2500 pounds
Drum: 500 pounds
Pail: 45 pounds

Material Compatibility

Undiluted product is compatible with Stainless Steel, Hastelloy, Viton, Eurathane, Neoprene, Kynar, Nylon, Polypropylene, Teflon, and Polyethylene.

Product is not compatible with copper, brass, mild steel or aluminum.

Storage and Handling

When stored at a temperature between 45 - 100°F (7 - 35°C), unopened containers have a shelf life of 12 months from date of purchase.

Harmful if swallowed. Avoid contact with skin, eyes and clothing. Keep container closed when not in use. Read SDS prior to opening container.

Certification

Our quality management system (ISO 9001) is successfully certified by DNV.