

HYDREX™ 4301

Product Information - Technical Data Sheet

Reducing Agent - Dechlorinator for Membrane Filtration



Description and use

HYDREX 4301 is a food grade liquid product used as reducer, removing dissolve oxygen and residual free and combined chlorine

It is specially formulated for reverse osmosis systems with polyamide (PA) membrane where presence of chlorine can deteriorate the membranes.

Advantages

- Food grade quality, free of any impurities
- Cost-effective concentrate
- Easy to use liquid formulation

Specification

Physical form: Liquid
Color: Clear to yellowish
Odor: Pungent
pH product value: 3.00 - 4.00
Specific gravity: 1.3 - 1.36

Materials compatibility

Tanks recommended materials: 304SS, 316SS, Polyethylene, PVC, Polypropylene

Application information

When RO or NF membranes are used in the process, the feedwater must be dechlorinated to prevent oxidation of the membrane. Dosage rate will be dependent upon the level of free chlorine present in the feedwater system. The suitable dose is 10 ppm of HYDREX 4301 for each ppm of active chlorine.

Although the dechlorination itself is rapid, good mixing is required to ensure completion. Inline static mixers are recommended. The recommended injection point is downstream of the cartridge filters in order to protect the filters from chlorine. In this case, HYDREX 4301 solution should be filtered through a separate cartridge before being injected to the RO feed.

The absence of chlorine should be monitored using and oxidation-reduction potential (ORP) electrode downstream of the mixing line.

Please consult your VWS representative for detailed instructions regarding the application of the product.

Handling, storage and packaging

HYDREX 4301 is supplied in bulk, semi-bulk, drums and smaller containers.

Safety information

Detailed information on the product described in this leaflet can be found in our relevant health and safety information (Safety Data Sheet). Please contact your Veolia representative for further information.