



FRA2010 Biocide

FRA2010 Membrane System Oxidizing Biocide is a high-efficiency microbial control agent specifically applied for the pretreatment stage of reverse osmosis systems. Utilizing a potent oxidizing mechanism, it rapidly inactivates bacteria, viruses, and algae in feed water, effectively suppresses biofilm formation, and delivers integrated disinfection and deodorization benefits. Its broad operational temperature and pH tolerance ensure reliable performance under diverse water conditions, establishing a robust biological contamination barrier for membrane systems. When applied with precise reduction protocols, FRA2010 safeguards membrane integrity while maintaining optimal biocidal efficacy—delivering a cost-effective and dependable oxidizing biocide solution for industrial water treatment.

Product Features

- ❖ **Broad-Spectrum & Rapid Action:** Quickly inactivates diverse microorganisms with sustained efficacy, minimizing biofouling risks.
- ❖ **Wide Operational Range:** Effective across 5–40°C and pH 6–9, adaptable to varied feedwater conditions.
- ❖ **Multi-Functional:** Integrates disinfection, deodorization, and biofilm/sludge removal capabilities.
- ❖ **User-Friendly:** Liquid formulation enables precise dosing and seamless integration into standard pretreatment workflows.
- ❖ **Safety Protocol:** Requires neutralization with reducing agent (e.g., sodium bisulfite) prior to RO entry; maintain residual chlorine <0.1 ppm or ORP <300 mV to prevent irreversible membrane oxidation.
- ❖ **Eco-Compliant:** Low-toxicity formula with environmentally benign degradation products, aligned with industrial safety standards.

Physicochemical Properties

The following represent typical properties of FRA2010 for reference only and are not guaranteed supply specifications.

Contact supplier for certified product data.

Item	Index
Appearance	Colorless to light yellow transparent liquid
pH (neat solution)	≥9.0
Density (20°C) (g/cm ³)	≥1.00

*For specialized applications or customized solutions, please contact FFM Inc. directly.

Instructions for Use

Dosing Guidelines:

FFM Inc.(USA) - A Professional Manufacturer of High-Performance Reverse Osmosis Membranes(RO), Nanofiltration Membranes(NM), Ultrafiltration Membranes(UM), Separation Membranes, Acid&Alkali Resistant Membranes, EDI Membrane Stacks, High-Flow Filter Cartridges And Water Treatment Chemicals,Etc.
6547N Academy Blvd#2266,Colorado,USA Web:www.ffmembrane.com Email:info@ffmembrane.com



Product Data Sheet- Membrane & Water Treatment Chemicals

Calibrated Chemistry, Constant Capability

- Recommended dosage: 1–5 mg/L (as Cl₂), adjusted per water quality. Apply during RO pretreatment stage. Critically, residual oxidants must be fully neutralized with a reducing agent (e.g., sodium bisulfite) before entering the membrane system. Strictly maintain feed water residual chlorine <0.1 ppm or oxidation-reduction potential (ORP) <300 mV.

Packing and Storage

Packaged in 25 kg plastic drums. Store in a cool, dark place at room temperature.

Shelf Life

6 months.

Precautions

- ❖ Untreated biocide to contact membrane elements are prohibited—irreversible oxidative damage will occur.
- ❖ Wear appropriate PPE (gloves, goggles) during operation; avoid skin/eye contact.
- ❖ Store and handle away from reducing agents to prevent unintended reactions.