AWC® C-223

Reverse Osmosis Membrane Cleaning Compound

ADVANTAGES

- High strength powder formulation specifically designed for removal of heavy organic fouling from membrane surfaces
- Penetrates and disperses biological slime
- Disperses inorganic particulates such as silt, silica, clay and other colloidal particles
- Removes polymers, emulsified oils, dyes and organic colors from the membrane surface
- Buffered to maintain pH range even when product is accidentally overdosed
- Does not contain any phosphates or organic compounds
- Compatible with all Thin Film Composite R.O. membranes from all major membrane suppliers

TYPICAL PROPERTIES

Appearance	White crystalline powder
Odor	Slight Characteristic
Solubility in Water	199 g/L @ 24 °C (75 °F)

PACKAGING

45 lb. pails and 400 lb. non-returnable plastic drums

SAFETY & HANDLING

Store in cool, dry and well ventilated area. Keep containers closed. Wash contaminated clothes before re-use. Wash thoroughly after handling. For more information, see the Safety Data Sheet provided with this product.

CHEMICAL FEEDING AND CONTROL

The cleaning solution should be prepared using RO permeate or softened water that is free of residual chlorine or other oxidizing agents. The solution should consist of 17 lbs of AWC C-223 for every 100 gallons of water (2 % by wt. solution), depending on severity of fouling. The cleaning solution is then circulated throughout the system without exceeding pressures, temperatures and flow rates recommended by the membrane manufacturer. Cleaning efficacy can be further improved by heating the cleaning solution and alternately circulating the solution for 60 minutes and then soaking the membranes for 30- 60 minutes for a total cleaning time of 4-6 hours. This should be repeated as many times as necessary. AWC C-223 should be added as necessary to the cleaning solution to maintain the pH range of 10.5–11.5 throughout the entire cleaning process. Depending on severity of fouling, your AWC representative will recommend optimal cleaning times.