

Filtration Chemical

INDION® 8112

RO/NF/EDR Antiscalant

Application

INDION 8112 is an excellent multifunctional antiscalant/antifoulant for use in reverse osmosis, nanofiltration and electro dialysis reversal systems. It is highly effective in inhibiting the formation and growth of calcium carbonate, calcium sulphate, calcium fluorides and metal oxides scales.

It minimises or eliminates acid feed for scale control, also disperses metal ions and colloids thus improving system efficiency.

Foulant	Index	Saturation limit with INDION 8112
CaCO ₃	*LSI	+2.6
CaSO ₄	# IP _b /K _{sp}	3
CaF ₂	# IP _b /K _{sp}	120

*Langliar saturation Index; #Ion product in brine/solubility product of salt

Benefits & Features

- It is certified to ANSI/NSF Standard 60 for the production of potable water by RO/NF/EDR
- Highly effective across a broad spectrum of waters
- Minimises scaling and reduces the frequency of membrane cleaning
- Will reduce and usually replace the need for acid addition
- Excellent threshold inhibitor and crystal distorter of alkaline earth metals & silica scales
- Effective at low dosages
- Compatible with most membrane types
- Maintains colloids and metal ions in suspension until rejection thus minimising fouling

Product Specifications

Appearance	:	Clear colourless to pale yellow liquid
pH as supplied	:	10.0 - 11.5
Specific gravity	:	1.30 - 1.40
Solubility in water	:	Miscible in all ratios
Flash point	:	Non-flammable aqueous solution

Direction for Use

INDION 8112 should be injected in membrane systems after chlorine and sodium meta-bisulphite treatment as such or diluted. Dilution should be done with RO permeate or equivalent quality water for preferably not less than 10 % solution. The solution should be kept covered and should be consumed within 4-5 days. INDION 8112 is not compatible with residual cationic polymers from the pre-treatment.

A dosage projection is required for each system to determine the proper dosage. A complete water analysis and system details are required based on which accurate dosage projection can be recommended by our sales representative.

Limitations and Handling

INDION 8112 is not considered hazardous but as with all industrial chemicals, care should be taken in its handling and use. Keep the container closed when not in use, the product should not be swallowed and prolonged contact with the skin should be avoided. Wear goggles & face shield and rubber gloves while handling this product.

Storage, Packaging & Shelf Life

INDION 8112 is available in 30 kg pails, 50/200 Kg drums and 1300 kg IBC. Shelf life of INDION 8112 is two years under normal handling and storage conditions. It is advisable to keep container tightly closed in a cool place.

The information contained herein, is to the best of our knowledge, true and accurate. No warranty, expressed or implied is made except that the products discussed herein complies with the chemical description.

INDION is the registered trademark of Ion Exchange (India) Ltd.

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