

Filtration Chemical

INDION® 8211

RO/NF/EDR Antiscalant

Application

INDION 8211 is an excellent multifunctional antiscalant/antifoulant for use in reverse osmosis, nanofiltration and electro dialysis reversal systems. It inhibits the formation and growth of silica, calcium carbonate, calcium sulphate, strontium sulphate, barium 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 8211
CaCO ₃	*LSI	+2.5
CaSO ₄	# IP _b /K _{sp}	4.2
Silica	**SCR	2.5

*Langelier saturation Index; # Ion product in brine/solubility product of salt; **SCR=Silica concentration ratio with 165 ppm SiO₂, 7.5 pH, 25°C

Benefits & Features

- 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	:	Pale yellow to yellow coloured liquid
pH as supplied	:	2.0 - 4.0
Specific gravity	:	1.10 - 1.20
Solubility in water	:	Miscible in all ratios
Flash point	:	Non-flammable aqueous solution

Direction for Use

INDION 8211 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 8211 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 8211 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 8211 is available in 25 kg pails, 50/200 Kg drums and 1100 kg IBC. Shelf life of INDION 8211 is two years under normal handling and storage conditions. It is advisable to keep container tightly closed in a cool place.

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