

Roth's Filtration Chemicals

(Phosphonate based chemistry)
RO/NF/EDR Antiscalant / Antifoulant



"An Innovative technology to protect your system"



ABOUT

Roth's Filtration Chemicals are multifunctional antiscalant for Reverse Osmosis (RO), nanofiltration (NF) and Electro-dialysis Reversal (EDR) systems.

It is highly effective in preventing calcium carbonate and silica scale on membrane surfaces.

Besides its excellent calcium carbonate & Silica scale inhibition it is effectively controlling calcium sulphate, calcium phosphate, strontium sulphate, barium sulphate, calcium fluoride and metal oxides scale.



ADVANTAGES

- Complete range of antiscalant, cleaners & defoamers for all water/wastewater treatment membrane & thermal applications (RO, NF, UF, MEE, MED, MSF)
- Highly effective fouling/scale control in broad spectrum of water/wastewater quality at low dosages during operation or preservation
- Will reduce & usually remove acid addition
- Will usually increase product output, reduce offline cleaning, decrease unscheduled system upsets & downtime
- Compatible with all major membrane types (TORAY, DOW, LG & Hydranautics) & NSF certified composition
- Advanced scale prediction software to provide antiscalant dosage projection
- High grade, consistent quality cleaners suitable for membrane application, harsh on foulants/scalant but gentle on membrane
- Detailed technical support capabilities, backed up by sophisticate lab in Arese, Italy
- More than 2 decade experience in filtration chemicals



RO Antiscalants

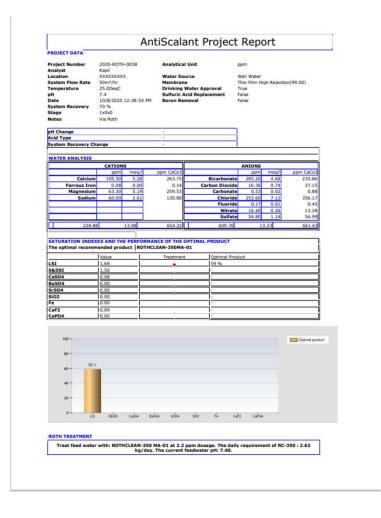
Innovative water solution from Roth Specialities RO Antiscalants: Rothclean-340 / Rothclean-350 & Rothclean-750 (Silica)

Foulants	Index	ROTH's Antiscalants saturation limit		
Calcium Carbonate	*L.S.I.	+2.8		
Calcium Sulfate	#IP _b /K _{Sp}	5.5		
Barium Sulfate	#IP _b /K _{Sp}	150		
Calcium Fluoride	#IP _b /K _{Sp}	120		
Calcium phosphate	#IP _b /K _{Sp}	4.5		
Silica	~S.C.R.	2.5 (~412 ppm)		

^{*}Langeliar saturation Index, #Ion product in brine/solubility product of salt, ~SCR=Silica concentration ratio at 165 ppm SiO₂, 7.5 pH, 25°C



Antiscalant Doses Projection Software





Membrane Cleaning Chemicals

- Roth's cleaners are general purpose membrane cleaner.
- It is effective against Inorganic scale and most organic foulants typically found in Reverse Osmosis (RO), nanofiltration (NF) systems.
- An effective cleaner for a wide range of inorganic salts and organic based foulants.
- Effective against aluminium based, Iron deposit, clay and colloidal silica foulants.
- Liquid product easy to use.
- Can be used with polyamide and cellulose acetate membranes.

ROTH's RO/NF Cleaner Range										
	CaCO3	CaSO4	CaPO4	Silica	Metal Oxides	Organic s & Slime	Microb es	Clays		
ROTH Alkaline										
ROTH Acidic										
ROTH Biocide										



APPLICATION

- The dosage level of Antiscalant is dependent on the quality of the feedwater and the saturation indices of the various scales forming species present in the concentrated brine.
- Recommended injection point is into the feedwater, downstream of any filtration equipment and cartridge filters.
- It is miscible with water in all proportions. It may be applied as neat product, or as a solution in permeate water.
- A minimum dosing solution strength of 10% is recommended. It should be dosed continuously and proportionally to the feed water flow.

Our Sales Engineer will advise you with regard to the specific dosage requirements for your system.



Thank You

Rothclean is a unique water chemistry at an affordable price

Roth Specialities India Pvt. Ltd.

(ISO 9001:2015, ISO 14001: 2015 & GMP Certified Co.)

info@rothspeciality.in I customercare@rothspeciality.in

Customer Care: +91-11-45034009 (4 Lines)

www.rothspeciality.in

Roth Specialities India Pvt. Ltd.