

## Antiscalant

**DOSCALE 65** is one of the principal anti-scalant used by the membrane industry. Doscale 65 is an excellent anti-scalant and anti-foulant suggested for membrane systems using a wide selection of brackish, high saline and treated effluent as feed-waters.

Doscale 65 is a highly effective threshold agent, which prevents the precipitation of calcium carbonate, calcium sulphate and barium sulphate by increasing their relative solubility. Doscale 65 has been developed dedicated to the protection of membranes and equipment.

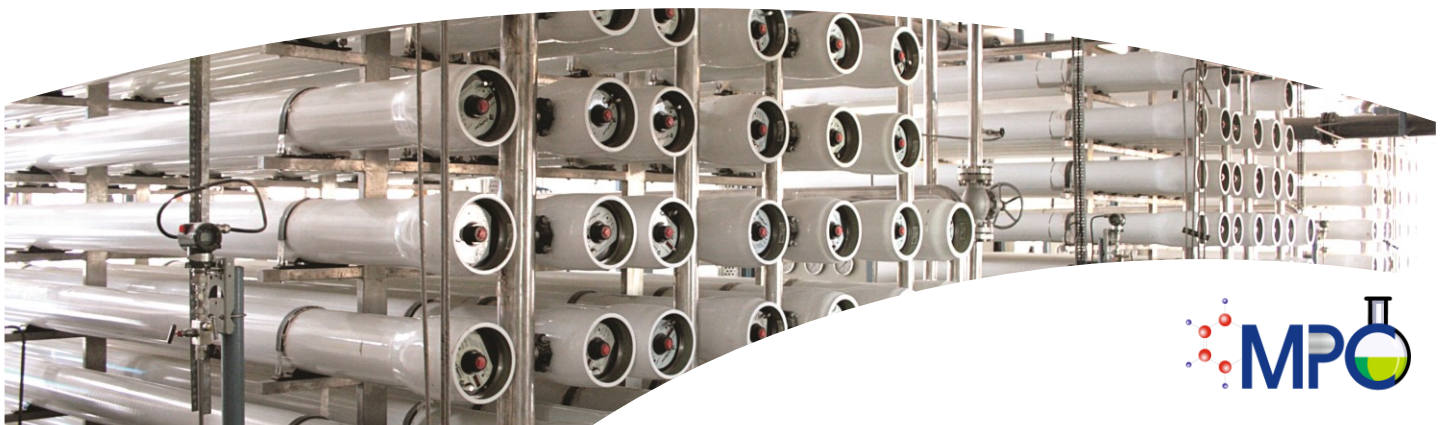
Doscale 65 can help to maintain membrane performance by minimizing precipitation of damaging salts.

There are many recorded instances where Doscale 65 has allowed systems to operate satisfactorily with enhanced levels of silica. Generally used with silica levels in the reject less than 150 mg/l.

### Advantages:

- Highly effective anti-scalant/ anti-foulant across a broad spectrum of waters.
- Minimizes scaling and reduces the frequency of membrane cleaning.
- Will reduce, and usually replace the need for acid addition.
- Low dose rate gives a cost effective application.
- Compatible with all membrane types.
- Effective iron sequestrates as well as Barium and strontium salts.
- Enables systems to work at enhanced rates of recovery.

**Handling & Storage:** Keep container tightly closed in a cool place. Store in a cool, dry well ventilated area away from fire and any oxidizing agents. Use dry, clean clothing and equipment when handling. Avoid breathing dust and contact with the eyes and skin. Wear rubber or plastic gloves and safety glasses with side shields.



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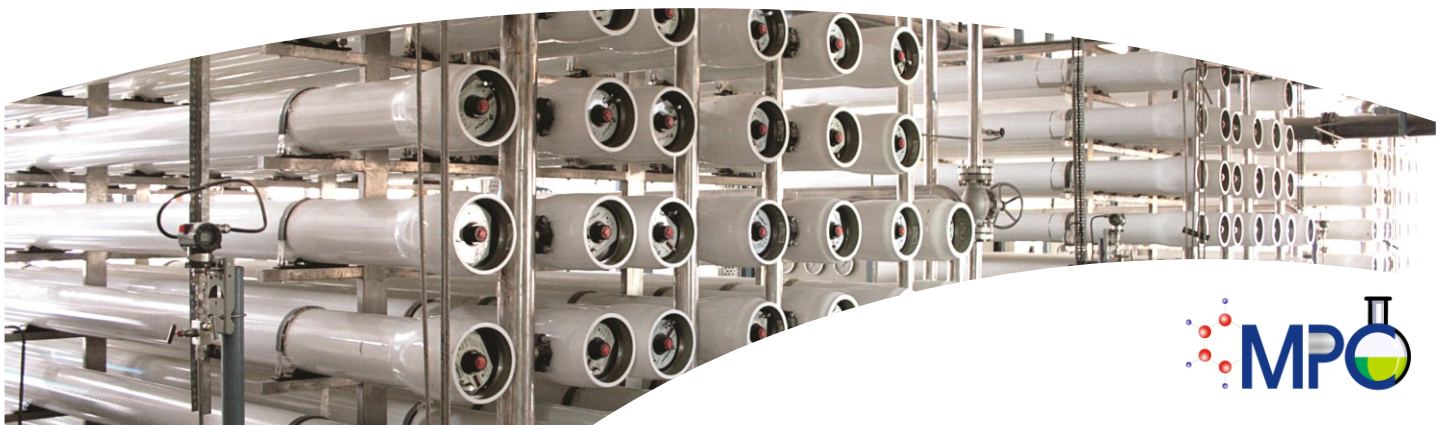
### Advantages of Doscale 65 over Sodium hexameta-phosphate dosing

- Handling SHMP has a short shelf life and solutions must be made up daily.
- Doscale 65 is effective anti-scalant than SHMP, maintaining salts in solution at high LSI up to + 2.5 values, which means systems can operate at higher recovery rates.
- Cleaning with Doscale 65 is far more stable than SHMP and is unlikely to cause any calcium or iron based phosphate deposition. For this reason the interval between cleaning significantly longer.
- Dosage of Doscale 65 is significantly lower than for SHMP.

Physical and Chemical Properties	
Physical state	Liquid
Appearance	Colourless to Pale Yellow
Odour	Slightly acidic
Specific gravity	1.0 - 1.20 @ 25 °C
Density	1.12 – 1.20 g/cm <sup>3</sup>
Solubility in water	Complete
ph (100 %)	5.5 – 6.5
Freezing point	- 5 °C
Vapor pressure	Same as water

Stability and Reactivity	
Stability	Stable under normal conditions
Hazardous Polymerization	Hazardous Polymerization will not occur
Conditions to avoid	Freezing temperatures
Materials to avoid	Fire, explosions and toxic vapours
Hazardous decomposition	Oxides of carbon under fire conditions

Doscale 65 dosage will depend on water quality. Typically 3-5 PPM based on operating parameters and water characteristics. Exact dosage is determined at site. Doshion product engineer will help you in designing the optimum dosage.



## Full Range of Membrane Performance Chemical

RO Membrane Chemicals	UF Membrane Chemicals	EDI Membrane Chemicals	Speciality Chemicals
DCC – Bior	DCC - UFC - I	EDC - SNO - IO - 56	Doshion – 1180
DCC – Inor	DCC - UFC - O	EDC - SNO - IO - 74	Doshion – C 8100
DCC - Col	DCC - UFC - C		Doshion – 3426
DCC - Stor	DCC - UFC - S		Doshion – 9711 (P)
Doshion - 51 (HS)			Doshion – 9718 (Z)
Doshion - 52 (L)			
Doshion - 53			
DoScale - 65			
Doshion - 6311 - LS			

## Full Range of Ion Exchange Resins

Cation Exchange Resin	Anion Exchange Resin	Speciality Resin	DM Resin
CSA 121	GA 11	DCHR 74	DMB 13
CSA 9	GA 12	DCHR 78	
CSA 9 L	GA 13	DIRM 412	
CSA 29	ASB 108	DCR 11	
CSA 609 D	ASB 171	CWS 66 D	
CWA 63	ASB 1080 D UPS	DMB 13 S	
CWA 92 D	ASB 8020 D	CGC 1200	
CSA 309	AWB 7020 D	CMC 1900	
	AWB 7030 D	CMC 2400	
	AWB 7050 D		
	GA 711		

## Full Range of Pharmaceutical Polymers

Active Pharma Ingredients	Excipients	Speciality Polymers	Ready Mix & Ready to Use
Doshion P-504 (Sodium Polystyrene Sulphonate USP / EP)	Doshion P-504 (Polystyrex Resin)	Doshion P-520	Doshion P-542 AB (R)
Doshion P-548 BP (Calcium Polystyrene Sulphonate BP)	Doshion P-514	Doshion P-535	Azithromycin Taste Masked (7.5%)
Doshion P-548 JP (Calcium Polystyrene Sulphonate JP)	Doshion P-542		
Doshion P-550 (Cholestyramine Resin USP / EP)	Doshion P-542 AB		
	Doshion P-542 CP		
	Doshion P-542 D		
	Doshion P-544 C		
	Doshion P-544 R		
	Polyflash Doshion P-544 DS		
	Doshion P-544 DS (Cipro)		
	Polyflash Doshion P-544 DB		
	Polyflash Doshion P-544 D		
	Doshion P-550		
	Doshion P-551 (Polyacrilix Resin)		

**doshion**<sup>®</sup>  
Translating Source Into Resource

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