

KR-0100 RO Antiscalant And Dispersant



Product Features

KR-0100 RO Antiscalant and Dispersant is a highly effective antiscalant, specially formulated for feedwaters with the highest levels of metal oxides, silica, and scale-forming minerals. KR-0100 RO Antiscalant and Dispersant is effective over a wide range of concentrations, and does not flocculate dissolved polymers such as residual coagulants or iron or aluminum-rich silica. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems. A special utility is in its application as a substitute for pretreatment with ion exchange beds.

KR-0100 RO Antiscalant and Dispersant has below benefits.

- Effective in retarding polymerization and precipitation of silica.
- Effectively controls inorganic scales over a large concentration range.
- Certified under ANSI/NSF Standard 60 for drinking water production.
- Compatible with major manufacturer' s RO, NF, and UF membranes.
- Does not flocculate dissolved iron/aluminum oxide/silica complexes.
- Effective in controlling calcium carbonate and calcium sulfate scales.
- Effective in feedwaters with pH range 5.0 – 10.0.
- Efficacious for controlling aluminum, iron, and heavy metal salts..

Technical Specification

Parameter	Standard	
	I	II
Appearance	Clear liquid	Clear transparent liquid
PH (1% Water solution)	2.0±0.5	2.0±0.5
Density (20℃), g/cm ³	1.03-1.06	1.45±0.05
Main content	Micromolecular containing P	Micromolecular containing P
Decomposition product under high temperature	orthophosphate	orthophosphate

Applications & Usage



KR-0100 RO Antiscalant and Dispersant should be injected into the feedstream prior to the static mixer and cartridge filter. Effective pH range is 5 – 10. If frozen, may be thawed and mixed before use.

In the useful dosage range of 1 – 15 mg/L (neat), control of a wide range of inorganic scales at up to 100 x saturation values or higher is possible. By monitoring the concentrate stream and trend charts, optimal dosage of KR-0100 RO Antiscalant and Dispersant can be achieved for the control of scales including that from calcium carbonate, calcium sulfate, barium sulfate, strontium sulfate iron hydroxide, aluminum hydroxide and silica.

Package & Storage

25L Drum	200L Drum	1000L IBC
		
Storage for ten months in shady room and dry place.		

Hazard & Safety Precaution

Hazard Information	Safety Precaution
 Class 8, UN 3265	
Once contacted with eye and skin, flush with plenty of clean water.	

Alternative Name / Synonyms

- KR-0100;
- RO Antiscalant And Dispersant