Water Treatment Chemicals

Antiscalants, cleaners, biocides and boiler, cooling and effluent chemicals



Overview

The right chemical in the right dose protects equipment and saves energy. Antiscalants stop salts from scaling RO membranes; cleaners restore them; boiler and cooling chemicals control scale, corrosion and growth; coagulants and flocculants clear effluent and turbid water.

Arukal supplies a full range and helps you choose the product and dose for your water. Our Online Consultation Service can review your plant data and help you set up a dosing programme.

Antiscalant · Cleaners	Scale · Corrosion · Biocide	Coagulant · Flocculant	5 · 25 · 50 kg
RO programme	Boiler and cooling	Effluent	Pack sizes

Key features

Full range Antiscalants, cleaners, biocides, coagulants, flocculants, pH correctors and boiler chemicals.	**Saves energy** Clean membranes and tubes need less pressure and heat.
Protects equipment Stops scale, corrosion and biofouling in membranes, boilers and cooling towers.	**Compliance support** Chemicals for effluent and sewage treatment to meet discharge limits.
Dosing guidance Dose rate and pump selection support for your plant.	**Safe packing** Labelled packs with safety data on request.

Applications

RO plants • Boilers and cooling towers • Effluent treatment • Sewage treatment plants • Clarifiers and filters • pH correction

How it works

1. Know your water	2. Select the product	3. Dose correctly	4. Check and adjust
Water analysis shows scaling, corrosion and fouling risk.	We match the chemical to the problem and the equipment.	Dosing pumps meter the chemical in proportion to flow.	Test results and plant data tell us when to change the dose.

Care and handling

Handle. Wear gloves and goggles. Read the label and safety data sheet before use.
Store. Keep chemicals in sealed original packs, cool and away from acids or oxidisers.
Dose. Use a calibrated dosing pump and never mix different chemicals in one tank.

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Technical specifications

Typical values. Values are typical for the product family and given for guidance. Exact figures depend on the make and model supplied; ask us for the data sheet of the specific model.

RO chemicals (typical)

Antiscalant dose	approx. 2 – 5 mg/L in feed (depends on water)
Low pH cleaner	Citric or acid based, for scale and metal oxides
High pH cleaner	Alkaline with surfactant, for organics and biofilm
Biocide for RO	Non-oxidising, membrane safe

Boiler and cooling (typical)

Boiler programme	Oxygen scavenger, scale and sludge conditioner, pH booster
Cooling programme	Scale and corrosion inhibitor, biocide (oxidising and non-oxidising)

Effluent and sewage (typical)

Coagulant	PAC, alum, ferric chloride
Flocculant	Anionic, cationic or non-ionic polymer
pH correction	Caustic soda, hydrochloric acid, lime

Chemical groups and use

Group	Examples	Used in	Typical pack
Antiscalants	Liquid RO antiscalants	RO plants	25 kg
Membrane cleaners	Low pH and high pH cleaners	RO cleaning	25 kg
Boiler chemicals	Oxygen scavenger, scale control	Boilers	25 / 50 kg
Cooling chemicals	Inhibitors and biocides	Cooling towers	25 / 50 kg
Coagulants and flocculants	PAC, alum, polymers	ETP, STP, clarifiers	25 / 50 kg

Brand and grade as available. Safety data sheets and dose guidance on request.

To receive a recommendation, send us:

- Where it will be used (RO, boiler, cooling tower, ETP, STP)
- Water analysis, or the effluent quality
- Flow rate and operating conditions
- Current chemical and dose, if any