

bimaks

**INNOVATIVE AND EXPERT
SOLUTIONS IN WATER TREATMENT**

ABOUT US

BIMAKS is a leading company in providing high performance chemicals, process aids, and test dosage equipment for the water treatment industry.

We aim to provide our customers the most updated products, reliable technical service and efficient logistical support through our technical research and business development activities. We aim to provide our customers the most updated products, reliable technical service and efficient logistical support through our technical research and business development activities.

Embodying production and marketing functions in its structure. BIMAKS is founded by an expert in the business with his innovative development know-how and environment sensitive recipes. BIMAKS has created itself a name as a customer oriented service company.

Teamwork concept, knowledge sharing and openness to development are main pillars of BIMAKS business concept. It is our objective to provide our customers the most logical and sustainable solutions in their effects to provide the best quality water for the industry.



APPLICATIONS

We work closely with our customers to understand their applications and the challenges they face.

This in turn helps to deliver products and services which supports our customer needs .

01**Reverse Osmosis Treatment****BOILER WATER TREATMENT****02****03****COOLING WATER TREATMENT****CLOSED SYSTEM TREATMENT****04**

05

POTABLE WATER TREATMENT

Microorganism Control
Agent Products

06



07

WASTE WATER CHEMICALS



GEOTHERMAL WATER TREATMENT

08



09

INDUSTRIAL CLEANING CHEMICALS



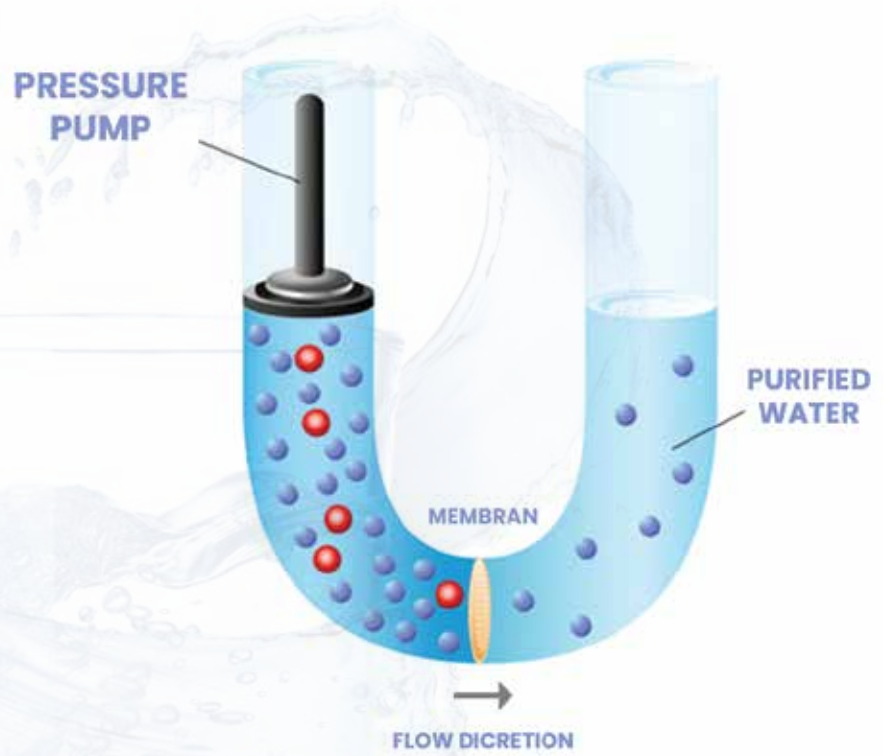
ENVIRONMENT FRIENDLY

10



REVERSE OSMOSIS TECHNOLOGIES

Reverse Osmosis system is based on the technology that water with a great concentration of contaminants (the source water, can be brackish water as sea water) is forced into a tank containing water with a lower concentration of contaminants (the processed water). In this process the water is forced through a semipermeable membrane. This membrane allows the passage of water, while rejecting most of the contaminants.



Reverse osmosis system allows converting highly contaminated surface water and sea-water into safe, potable and drinkable quality water. Reverse osmosis technology is being utilized by drinking water bottlers and household users. BIMAKS, designs and produces special chemicals which increase the operational efficiency of all types of reverse osmosis systems. Through our products; we reduce our customer's costs and increase the life cycle of expensive filter membranes.



American EPA (Environmental Protection Agency) SDWA (Safe Drinking Water Act .)

has approved Reverse Osmosis system as the best technology and safe water system .

REVERSE OSMOSIS SYSTEM

PRE-TREATMENT CHEMICALS

Coagulation and Flocculation Chemicals

RO chemicals designed for cleaning oil and other hydrocarbon based impurities on microfiltration and ultrafiltration membrane systems. RO chemicals to eliminate Iron and Calcium deposits off the MF and UF membrane systems.

What are the benefits of using pre-treatment chemicals?

Improve the performance of pre-membrane equipment.

Prevent biological accumulations.

Provide through microorganism control of membrane systems.



ANTISCALANT

Antiscalant is a chemical additive for reverse osmosis systems that is highly effective in preventing the formation of scale on the membranes. The antiscalant is normally injected into feedwater before it enters the reverse osmosis system.

Calcium carbonate, calcium sulfate & iron (NSF approved)	MAKS 400P
High calcium & silicate feedwater	MAKS 401
Calcium sulfate, calcium carbonate & iron (High Performance)	MAKS 402
Calcium carbonate & iron (high alkalinity feedwater)	MAKS 403
High calcium and silicate (for Small RO systems)	MAKS 411
Microbiological contamination and mineral deposits	MAKS 412
Calcium carbonate, calcium sulfate, iron & Antifoulant	MAKS 437
High silicate & calcium	MAKS 420
Sea Water Applications	MAKS 430
Calcium sulfate & barium sulfate	MAKS 804
Sea Water Applications	MAKS 830
High silicate & calcium	MAKS 845
Calcium carbonate, calcium sulfate & iron	MAKS 880

The Benefits of Antiscalant Usage

- You may reduce or entirely eliminate acid consumption
- Your membranes will operate at higher recoveries.
- High performance even at low dosages.
- Bimaks antiscalants are compatible with all membrane types.

MEMBRANE CLEANERS

- Efficient removal of carbonate, phosphate and sulfate scales.
- Removal of polymerized silica and silica polyvalent metal co-precipitants.
- Dissolution of iron and manganese oxide, manganese hydroxide and sulfide deposits.
- Penetration and dispersion of biological slime.
- Removal of heavy organic foulants, cationic polymers and hydrocarbons.
- Dispersion of silt and clay deposits.

Advantages

- Reduced cleaning time.
- Effective at lower concentrations.
- Removing stubborn foulants from membrane surfaces.
- Safe use with membranes in potable water systems.



BEFORE



AFTER

CLEANING PRODUCTS



Removal of organics - UF membrane	MAKS 464
Removal of metal oxides - UF membrane	MAKS 466
Organics & biofilm removal - RO membranes	MAKS 467
Alkaline RO membrane cleaner - (Powder Form)	MAKS 468
Alkaline RO Membrane cleaner removal of organics & metal oxides	MAKS 482
Alkaline RO Membrane cleaner removal of organics & metal oxides	MAKS 483
Acidic RO membrane cleaner - (Powder Form)	MAKS 491
Acidic RO Membrane cleaner removal of silicate, aluminum, iron & manganese	MAKS 494

MICROORGANISM CONTROL AGENT

Microorganism control agent for cleaning and feed water	MAKS 471
Microorganism control agent for cleaning or preservation on standby	MAKS 473
Microorganism control agent Cleaner and biofilm removal	MAKS 486
Microorganism control agent for RO feed water	MAKS 487

POST TREATMENT CHEMICALS

- Corrosion inhibition of distribution systems
- Protection for iron, steel and galvanized piping systems
- Protection of lead and copper plumbing.
- Sequestering of hardness and insoluble iron deposits.

Advantages

- Reducing the formation capacity of THM in the presence of chlorine.
- Remarkable reduction in corrosion and leaching of lead from piping.
- Water quality and color improvement due to reduced iron content.

PROTECTIVE PRODUCTS

Corrosion inhibitor for RO outlet	MAKS 490
Dechlorination of RO inlet water (includes organic catalyser)	MAKS 493

SEA WATER EVAPORATORS



ANTISCALANTS

Scale and fouling in MSF plants (Neutral)	MAKS 450
Scale and fouling in MSF plants (Acidic)	MAKS 451
Antiscalant/Antifoam for MSF plants (Acidic)	MAKS 452
Scale and fouling in MSF plants	MAKS 453
Antiscalant/Antifoam for MSF plants	MAKS 454
To control foaming and priming in seawater distillation plants	MAKS 455



EXCELLENT PRODUCT QUALITY

BIMAKS is proud to supply its high performance chemical products developed to the most updated technology. Our R&D team supports BIMAKS in its efforts to provide our customers with tailor-made solutions. As BIMAKS, we provide our products with high quality levels and quality assurance.

FAST AND RELIABLE SERVICE

BIMAKS, in its service laboratory, performs the customer water sample analysis to the highest accuracy in a short time. By entering the report's data, BIMAKS Antiscalant Software Program identifies your reverse osmosis problems and selects the most effective antiscalant and the corresponding dosage rate. Our engineers are at your service throughout the operation; until a sustainable result is achieved.





PILOT APPLICATIONS

At BIMAKS, we simulate the actual site of our clients in our pilot plants.

They are practical and mobile, hence easily made available for our clients.

These studies enable our engineers to provide efficient solutions to your scaling and contamination problems.

SYSTEM MONITORING & OPTIMIZATION

We are by your side during the commissioning period of your RO system and application of BIMAKS.

We help to select the optimum membrane system for our clients and formulate the most economical chemicals.



LABORATORY SERVICES

At BIMA KS, we are capable of applying several analyses of feed water and membrane performance tests.

Also, we are able to recommend the correct dosage rates of our antiscalants, coagulants and flocculants.



MEMBRANE AUTOPSY

We perform the membrane autopsy on the membrane layer surfaces.

Deposits, scales formations and specific foulants are identified.

Relying on the result obtained we recommend the best suitable cleaning method.

BOILER WATER TREATMENT



OXYGEN SCAVENGERS

Catalyzed oxygen scavenger liquid SMBS	MAKS 1100
Catalyzed oxygen scavenger liquid Sodium Suphite - RO feed	MAKS 1102
Catalyzed oxygen scavenger powder SMBS	MAKS 1110
Catalyzed oxygen scavenger liquid DEHA	MAKS 1121
Oxygen scavenger - Carbohydrazide based	MAKS 1122
Oxygen scavenger - Hydrazine based	MAKS 1123

SCALE INHIBITORS

Effective For softened alkaline feed water	MAKS 1200U
For low alkalinity softened or demineralized or RO feed water (add alkalinity & PO ₄)	MAKS 1200
For low alkalinity softened or demineralized or RO feed water (add alkalinity & Disp.) (Non phosphate)	MAKS 1232
Special scale inhibitors, cleaners and removers - Online Cleaner	MAKS 1240
Powerful scale inhibitor & on-line cleaner	MAKS 1241

CONDENSATE CORROSION INHIBITORS

CO ₂ corrosion inhibitor for all areas of complex condensate lines	MAKS 1300
CO ₂ corrosion inhibitor for steam and complex condensate systems	MAKS 1301
CO ₂ corrosion inhibitor for medium condensate lines or small condensate systems	MAKS 1310
CO ₂ & O ₂ corrosion inhibitor all areas of complex condensate lines	MAKS 1320
Organic filmer and neutralizing amine	MAKS 1330
Organic filmer and neutralizing amine (High Alkalinity)	MAKS 1341

OTHERS

Organic based defoamer	MAKS 1610
Alkalinity Booster	MAKS 1619
Boiler protection on stand-by	MAKS 1640
Boil-out compound	MAKS 1670
Hot water boiler treatment (soft feedwater)	MAKS 1680

MULTIFUNCTIONAL TREATMENT

Oxygen scavenger and scale inhibitor & removal (high alkalinity feed water)	MAKS 1415P
Oxygen scavenger and scale inhibitor & removal (RO & remineralized feed water)	MAKS 1420
Oxygen scavenger and scale inhibitor (for RO and demineralized water)	MAKS 1425
Oxygen scavenger and scale inhibitor (for Soft feedwater & scale removal)	MAKS 1440
Oxygen scavenger, scale inhibitor, condensate protection (for Soft feedwater & scale removal)	MAKS 1550F
Oxygen scavenger, scale inhibitor, condensate protection (for RO and demineralized water)	MAKS 1560F
Oxygen scavenger, scale inhibitor, condensate protection (with polyamin)	MAKS 1570

COOLING WATER TREATMENT



SCALE INHIBITORS	
For calcium sulfate, calcium carbonate	MAKS 2100P
High alkalinity and hardness	MAKS 2101
For high alkalinity, high heat and high hardness - Non phosphate	MAKS 2108A
For hard feedwater systems (steel, copper)	MAKS 2110A
For high hardness and high alkalinity, very powerful	MAKS 2117
For hard feedwater systems with chlorine stabilizer (for all surfaces)	MAKS 2911



CORROSION INHIBITORS

Effective for soft & RO feed water (Enviromental friendly)	MAKS 2205 EF
For soft feedwater systems (high conductivity) - Zinc Based	MAKS 2210
Multifunctional Porducts for Corrosive and hard water - Zinc Based	MAKS 2215
Multifunctional Porducts for Corrosive and hard water - Zinc Based	MAKS 2290

OTHERS

Cleaning and passivation product for new cooling systems	MAKS 2240
Effective for Copper Treatment - Azole based	MAKS 2250

CLOSED COOLING SYSTEM TREATMENT



CORROSION&SCALE INHIBITORS

Effective for soft or demineralized feedwater systems (steel, copper)	MAKS 3000
Effective for soft or demineralized feedwater systems (aluminum)	MAKS 3100
Effective for all metal protection	MAKS 3205
Effective for soft or demineralized feedwater systems – Mainly Molybdate Based	MAKS 3210
Soft or demineralized feedwater systems (semi-closed systems) High Protection with Biocide	MAKS 3300

POTABLE WATER TREATMENT

CORROSION & SCALE INHIBITORS

For soft water	MAKS 5020
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MICROORGANISM CONTROL PRODUCTS



MICROORGANISM CONTROL PRODUCTS

Oxidizing microorganisms control agent - Bromine based	MAKS 4000
Non Oxidizing, Non foaming Microorganisms agent (cooling towers) (Fast Acting)	MAKS 4071
Non Oxidizing, Non foaming Microorganisms agent (cooling towers)	MAKS 4080
Non Oxidizing, Non foaming Microorganisms agent (closed systems)	MAKS 4081
Super concentrated non Oxidizing, Non foaming Microorganisms agent (cooling towers)	MAKS 4085
Non Oxidizing, Highly foaming Microorganisms agent (cooling towers)	MAKS 4112
Concentrated non Oxidizing, Highly foaming Microorganisms agent (cooling towers)	MAKS 4115
Concentrated non Oxidizing, Highly foaming Microorganisms agent (cooling towers) Super Concentrated	MAKS 4118

OTHERS

A Combination of microorganisms agent compounds and Biodispersant (cooling towers)	MAKS 4132
Biodispersant	MAKS 4141
Oil Dispesant	MAKS 4146
Hypochlorite activity enhancer	MAKS 4160

MINING PRODUCTS

Antiscalant for mining industry	MAKS 400A
Antiscalant for mining industry - non phosphate	MAKS 8070



WASTE WATER CHEMICALS



Anionic polyelectrolyte	MAKS 6110
Cationic Polyelectrolyte	MAKS 6130
Coagulant - Iron based	MAKS 6160
Coagulant - PAC Based	MAKS 6220
Cationic Coagulant liquid	MAKS 6440
Coagulant - aluminium sulphate Based	MAKS 6520

GEOHERMAL WATER TREATMENT



Products Benefits:

- Effective against scales formed by hardness salts and silica to increase the system efficiency and prevent tube failures.
- Prevents the formation of FeOx, CaCO₃, CaSO₄, Ca₃PO₄, BaSO₄, SrSO₄, Si, MgO and MnO scales.
- Specially developed for high conductivity geothermal wells.

Scale inhibitor for hot wells (up to 170°C)	MAKS 6285
High performance - Super concentrated	MAKS 6290
Scale inhibitor for hot wells (up to 300°C)	MAKS 6295

INDUSTRIAL CLEANING CHEMICALS



Aluminum cleaner	MAKS 109
Scale, rust, oil, silicate, phosphate based deposit cleaner (SS surface)	MAKS 125
For iron oxide (rust) and hardness salts (Copper and SS surface)	MAKS 132
Scale & rust powder cleaner (steel, copper, cast iron)	MAKS 140G
Neutral cleaner for sensitive metals containing systems	MAKS 162
Iron oxide (rust) & hardness salts cleaner	MAKS 172
Acid corrosion inhibitor	MAKS 183
Biocide tablet for air conditioning systems	MAKS FAN COIL TABLET
Plastics and P.E.T. cleaner in the recycling process	MAKS P.E.T. CLEAN

Cleaning product for polycarbonate & glass bottles	MAKS BOTTLE CLEAN
Super concentrated surface cleaner	MULTI 16
Alcohol based hand cleaner - Gel	DERMO 15
Alcohol based hand cleaner - Liquid	DERMO 15L
Stubborn & layered oil residuals, grease, wax, tar, carbon, scum cleaner	AQUA 10
Oil & dirt cleaner	AQUA 11
Acid free aluminum cleaner	AQUA 12



Gas Turbine Cleaners

Super concentrated gas turbine cleaner (1:19)	MAKS GTC
Concentrated gas turbine cleaner (1:4)	MAKS GTC 1000

ENVIRONMENT FRIENDLY

At BIMA KS, one of our main objectives is to release environmentally friendly ideas. We are fully aware of the critical importance of the environment for a healthy generation, clean world, and a promising future. Through our modern and economical chemical solutions, we help you to create savings on water resources and your expenditures.

We believe that tomorrow's nature is created today.



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