



MMICRO CHEMICALS & PLANTS PVT LTD

We Believe in amazing Chemistry

WATER TREATMENT CHEMICALS | PLANTS

www.microchemicals.in



MICRO CHEMICALS
ABOUT

MMICRO CHEMICALS AND PLANTS PVT LTD stands as one of the leading Pioneer in Water Treatment Chemicals and Plants with more than two decades of industrial expertise and serving hundreds of industries pan India by integrating highly skilled OEM's & dealers. We are well known for our quality and reliability to our customers by providing best in class technical assistance and Product support thereby achieving our mission to being the most preferred water treatment pioneers across every consumer segment.

We manufacture and supply a comprehensive range of Water treatment Chemicals and Plants to suit every need of the customer with most optimal cost. We work with our customers to achieve high efficiency throughout the product lifetime and save operating and breakdown costs. We constantly strive to push beyond our limitations to solve customer challenges and contribute quality, safety and environmental objectives.

We work with various industrial segments to explore and find all possible methods and practices to improve process system, there by addressing the ever growing demand for water management and improved functionality of the water treatment plants.

**ALWAYS
WITH
QUALITY**

OUR PRODUCTS AND SERVICES

CONTENT

PAGE

PRODUCTS

Boiler Water Treatment Chemicals	5
Cooling Tower Water Treatment Chemicals	6
RO Plant Chemicals	7
Evaporator Chemicals	8
Chiller Chemicals	9
Industrial Process Chemicals	10
Waste Water Treatment	11
Water treatment Plants	12

SERVICES

Boiler Descaling	18
Equipment Erection Commissioning	19
Industrial Water Auditing Service	20
Water Treatment Consultancy Service	21

ANNEXURE

22





CHEMICALS AND PLANTS

OUR PRODUCTS

DEVELOPED WITH QUALITY TO SERVE
CHALLENGES OF OUR CUSTOMERS

www.microchemicals.in

Boiler Water Treatment

More than hundreds of boilers across various industries such as paper, textiles, food processing, etc. and various power plants trust with our products and services.



SIGNIFICANCE

Boiler is a closed vessel in which water or other liquid is heated, steam or vapor is generated, steam is super-heated, or any combination thereof, under pressure or vacuum, for use external to itself, by the direct application of energy from the combustion of fuels, from electricity or nuclear energy. The boiler is a primary part of global heating system in power plants.

Boilers differ from its size, shape and operation methods based on the need of the utility. During operation Boilers encounter serious problems of scale and corrosion and requires periodic maintenance to save fuel and avoid breakdown costs.

Micro Chemicals provides boiler chemicals which prevents Boiler breakdowns and provides efficient operation, saving fuel costs and time.

Micro Chemicals Formulate wide categories of Boiler Chemicals as follows

- Anti scalant
- Corrosion inhibitor
- oxygen scavenger
- pH Booster
- Integrated Chemicals

MAINTAINANCE

Historically, boilers were a source of many serious injuries and property destruction due to poorly understood engineering principles. Steam is a great way of moving energy and heat around a site from a central boiler house to where it is needed, but without the right boiler feed water treatment, a steam-raising plant will suffer from scale formation and corrosion. At best, this increases energy costs and can lead to poor quality steam, reduced efficiency, shorter plant life and unreliable operation. At worst, it can lead to catastrophic failure and loss of life.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. Connect with us to know more

Micro Chemicals provides the right products and works with users to bring out the best possible outcome to the intended use of equipment

Cooling Tower Water Treatment

Micro Chemicals has served various industries to run and maintain efficient operation of Cooling Towers with unmatched quality from our products.



SIGNIFICANCE

A cooling tower is a heat rejection device that rejects waste heat to the atmosphere through the cooling of a water stream to a lower temperature. Cooling towers may either use the evaporation of water to remove process heat and cool the working fluid to near the wet-bulb air temperature or, in the case of closed circuit dry cooling towers, rely solely on air to cool the working fluid to near the dry-bulb air temperature.

Cooling towers are of different size and designs to serve a wide range of purposes based on the industry or purpose. Cooling towers has operational challenges with growth of algae and scale formation on cooling tower fins.

Micro Chemicals provides cooling tower chemicals which prevents algae growth and scale formation in turn providing efficient heat exchange and achieve the equipment life,

Micro Chemicals Formulate wide categories of Cooling Tower Chemicals as follows

- Anti scalant
- Corrosion inhibitor
- Biocide

MAINTAINANCE

Chemical treatment programs to be used for controlling corrosion, deposition, and microbiological growths. Fouling, biological growth and corrosion can disrupt cooling tower operations. Cooling tower chemical dosing prevents growths that may interfere with continuous water flow. The circulating cooling water is treated to minimize scaling and fouling and to remove particulates.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. connect with us to know more

*At Micro Chemicals
voice of customer
comes first in
achieving the
challenge*

Reverse Osmosis Water Treatment

Reverse Osmosis (RO) system is found in most water treatment areas, Micro Chemicals have mastered wide range of products for its efficient operation.



SIGNIFICANCE

Reverse osmosis is the process of forcing a solvent from a region of high solute concentration through a membrane to a region of low solute concentration by applying a pressure in excess of the osmotic pressure. This is the reverse of the normal osmosis process.

The membranes used for reverse osmosis systems have a dense polymer barrier layer in which separation takes place, usually the polymer is wound over a collector

There should be an economic balance between product quality and system recovery. High recoveries increase concentration of dissolved solids in the system which make the system work more efficiently and decrease waste.

Micro Chemicals provides RO plant chemicals such as anti scalant, pH booster to improve membrane durability and maintain treated RO water parameters with high recovery rate

Micro Chemicals Formulate wide categories of RO water treatment Chemicals as follows

- Anti scalant
- RO cleaning chemicals
- pH booster

MAINTAINANCE

Suspended particles may settle on the membrane surface, thus blocking feed channels and increasing pressure drop across the system. Sparingly soluble salts may precipitate from the concentrate stream, create scale on the membrane surface, and result in lower water permeability through the RO membranes. This process of formation of a deposited layer on a membrane surface is called membrane fouling and results in performance decline of the RO system.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. connect with us to know more

Micro Chemicals ensures reliable affordable and efficient performance through products and services

Evaporator Water Treatment

Evaporators are widely used in the industries to remove a portion of the water from Process Fluid. Micro Chemicals products are used by leading industries.



SIGNIFICANCE

The evaporator, as a machine, generally consists of four sections. The heating section contains the heating medium, which can vary. Steam is fed into this section. The most common medium consists of parallel tubes. The concentrating and separating section removes the vapor being produced from the solution. The condenser condenses the separated vapor, then the vacuum or pump provides pressure to increase circulation.

An evaporator is a device in a process used to turn the liquid form of a chemical substance such as water into its gaseous-form/vapor. The liquid is evaporated, or vaporized, into a gas form of the targeted substance in that process.

Micro Chemicals provides Evaporator chemicals which ensures effective operation of Evaporators by preventing scaling and foaming.

Micro Chemicals Formulate wide categories of Evaporator Chemicals as follows

- Anti scalant
- Defoamer

MAINTAINANCE

Some evaporators are sensitive to differences in viscosity and consistency of the dilute solution. These evaporators could work inefficiently because of a loss of circulation. The pump of an evaporator may need to be changed if the evaporator needs to be used to concentrate a highly viscous solution. Fouling also occurs when hard deposits form on the surfaces of the heating mediums in the evaporators. Foaming can also create a problem since dealing with the excess foam can be costly in time and efficiency.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. connect with us to know more

*Micro Chemicals
has established
unmatched
excellence in
product quality and
performance*

Chillers Water Treatment

Micro Chemicals has unique products for efficient operation of Chiller Plants across various consumer segments ensuring efficient operations.



SIGNIFICANCE

A chiller is a machine that removes heat from a liquid via a vapor-compression or absorption refrigeration cycle. This liquid can then be circulated through a heat exchanger to cool equipment, or another process stream (such as air or process water). As a necessary by-product, refrigeration creates waste heat that must be exhausted to ambience, or for greater efficiency, recovered for heating purposes.

In industrial application, chilled water or other liquid from the chiller is pumped through process or laboratory equipment. Industrial chillers are used for controlled cooling of products, mechanisms and factory machinery in a wide range of industries.

Micro Chemicals provides Chiller Treatment chemicals across all consumer segments ensuring efficient operation and preventing breakdowns.

Micro Chemicals Formulate wide categories of Chiller Water Treatment Chemicals as follows

- CORROSION CUM SCALE INHIBITOR

MAINTAINANCE

Whilst on the subject of water treatment, water quality should not be neglected when looking at your chilled water system. Water quality is important as failure to manage it will cause your pipework to corrode which will inevitably lead to equipment failure. Whilst getting a water quality check is a legal requirement, many service providers will not action poor results, merely inform you of them. Performing checks that take less than two minutes each day could make a massive difference to your operation and enable you to prevent rather than fix.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. connect with us to know more

*Micro Chemicals
formulates the
products and
services to provide
optimal solution to
the customers*

Industrial Process Chemicals

Micro Chemicals Formulates and Synthesizes Process Chemicals for Heavy Industries such as Textile Dyeing, Paper Mills, Food Processing, and so on.



SIGNIFICANCE

Process chemicals are a broad chemical category including polymers, bulk petrochemicals and intermediates, other derivatives and basic industrial chemicals.

The processes and product or products are usually tested during and after manufacture by dedicated instruments and on-site quality control laboratories to ensure safe operation and to assure that the product will meet required specifications.

Chemical processes such as chemical reactions operate in chemical plants to form new substances in various types of reaction vessels. In many cases the reactions take place in special corrosion-resistant equipment at elevated temperatures and pressures with the use of catalysts. Micro Chemicals provides Process chemicals for several heavy industries such as Paper, Textiles, and other such industries.

Micro Chemicals Formulate wide chemicals for following Industries

- Paper Industry
- Textile Industry
- Sugar Industry
- Food Processing Industries
- Other Heavy Industries

QUICK NOTES

Speciality chemicals are materials used on the basis of their performance or function. Consequently, in addition to "effect" chemicals they are sometimes referred to as "performance" chemicals or "formulation" chemicals. They can be unique molecules or mixtures of molecules known as formulations. The physical and chemical characteristics of the single molecules or the formulated mixtures of molecules and the composition of the mixtures influences the performance end product.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. connect with us to know more

Micro Chemicals focuses on solving the challenges and does not sell just promises to customers

Industrial Waste Water Treatment

Wastewater is full of contaminants including bacteria, chemicals and other toxins. Its treatment aims at reducing the contaminants to acceptable levels to make the water safe.



SIGNIFICANCE

Wastewater treatment is a process used to remove contaminants from wastewater or sewage and convert it into an effluent that can be returned to the water cycle with minimum impact on the environment, or directly reused. There are two wastewater treatment plants namely chemical or physical treatment plant, and biological wastewater treatment plant. Physical treatment is used in most prominent industries.

Wastewater treatment generally involves 3 stages of treatment Primary, Secondary and Tertiary Wastewater treatment plants may be distinguished by the type of wastewater to be treated The 5 major unit processes include chemical coagulation, flocculation, sedimentation, filtration, and disinfection.

Micro Chemicals provides chemicals formulated specific to customer requirements.

Micro Chemicals Formulate wide categories of Waste water treatment Chemicals as follows

- Poly electrolyte
- Defoamer
- Decolorant
- Other Basic Chemicals

QUICK NOTES

Industrial wastewater plants may reduce raw water costs by converting selected wastewater to reclaimed water used for different purposes. Although disposal or reuse occurs after treatment, it must be considered first. Since disposal or reuse are the objectives of wastewater treatment, disposal or reuse options are the basis for treatment decisions. Acceptable impurity concentrations may vary with the type of use or location of disposal.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. connect with us to know more

Micro Chemicals emphasizes Environmental values of customers to achieve Sustainability

Water Treatment Plants

Water treatment removes contaminants and undesirable components, or reduces their concentration so that the water becomes fit for its desired end-use.



SIGNIFICANCE

Water purification is the process of removing undesirable chemicals, biological contaminants, suspended solids, and gases from water.

Water purification may reduce the concentration of particulate matter including suspended particles, parasites, bacteria, algae and fungi as well as reduce the concentration of a range of dissolved and particulate matter. Water should be tested before its intended use.

The goals of the treatment are to remove unwanted constituents in the water and to make it safe to drink or fit for a specific purpose in industry or medical applications.

Widely varied techniques are available to remove contaminants such as Multimedia and Softening Plant, RO Plant, DM Plant, etc.

Micro Chemicals provides wide range of water treatment plants for attaining the required standards of water in industries.

Micro Chemicals Provides wide range of Water treatment plants as follows

- RO Plants
- Softening Plants
- DM Plants
- Multi Media and Sand Filters
- Other Water Treatment Plants

MAINTAINANCE

Preventive maintenance ensures that the different components of the water supply system perform correctly over their service life. This in turn avoids the occurrence of a major fault or breakdown in the water supply system that calls for corrective maintenance that is many times more expensive. As a result, the service level of the water supply system will reduce or even be interrupted over the period of maintenance, causing significant inconvenience to users and reducing the income of the water utility.

Micro Chemicals houses a team of experienced professionals to select the right product formulated for customer needs. connect with us to know more

*Quality, Reliability,
and on time delivery
is the success key to
Micro Chemicals*

RO PLANTS

Reverse osmosis is a common process to purify or desalinate contaminated water by forcing water through a membrane. Water produced by reverse osmosis may be used for a variety of purposes, including desalination, wastewater treatment, concentration of contaminants, and the reclamation of dissolved minerals.

TECHNOLOGY

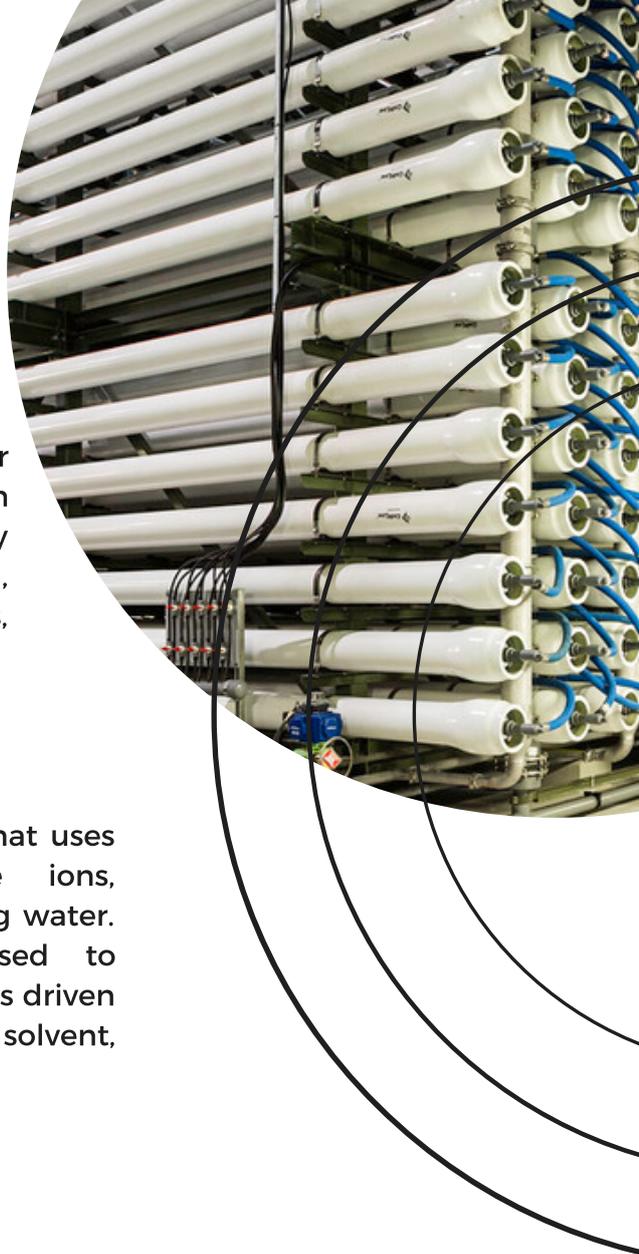
Reverse osmosis (RO) is a water purification process that uses a partially permeable membrane to remove ions, unwanted molecules and larger particles from drinking water. In reverse osmosis, an applied pressure is used to overcome osmotic pressure, a colligative property, that is driven by chemical potential differences of the solvent, a thermodynamic parameter.

KEY FACTS

- 01** Reverse osmosis removes particles larger than 0.1 nm
- 02** Back wash and proper treatment chemicals are used for durability
- 03** Multiple stages are used for high recovery rate and efficiency
- 04** Energy requirements depend on contaminant concentration

PLANT COMPONENTS

- RO Membrane
- RO Membrane Hosing
- Pre Filtration units
- Dosing Chemicals
- Dosing Pump
- Feed Pump
- Piping's
- Access Panel
- Valves and fittings
- Flow Measuring Instruments
- Mounting Structures
- Other accessories



DM PLANTS

Demineralized Water also known as Deionized Water, Water that has had its mineral ions removed. Mineral ions such as cations of sodium, calcium, iron, copper, etc and anions such as chloride, sulphate, nitrate, etc are common ions present in Water.

TECHNOLOGY

Deionization is a physical process which uses specially-manufactured ion exchange resins which provides ion exchange site for the replacement of the mineral salts in Water with Water forming H⁺ and OH⁻ ions. Because the majority of Water impurities are dissolved salts, deionization produces a high purity Water that is generally similar to distilled Water, and this process is quick and without scale buildup. Demineralized Water System finds wide application in the field of steam, power, process, and cooling.

KEY FACTS

01

Dissolved solids in demineralized water can reach below 10 mg/l

02

Electrical conductivity can be less than 2 mS/m.

03

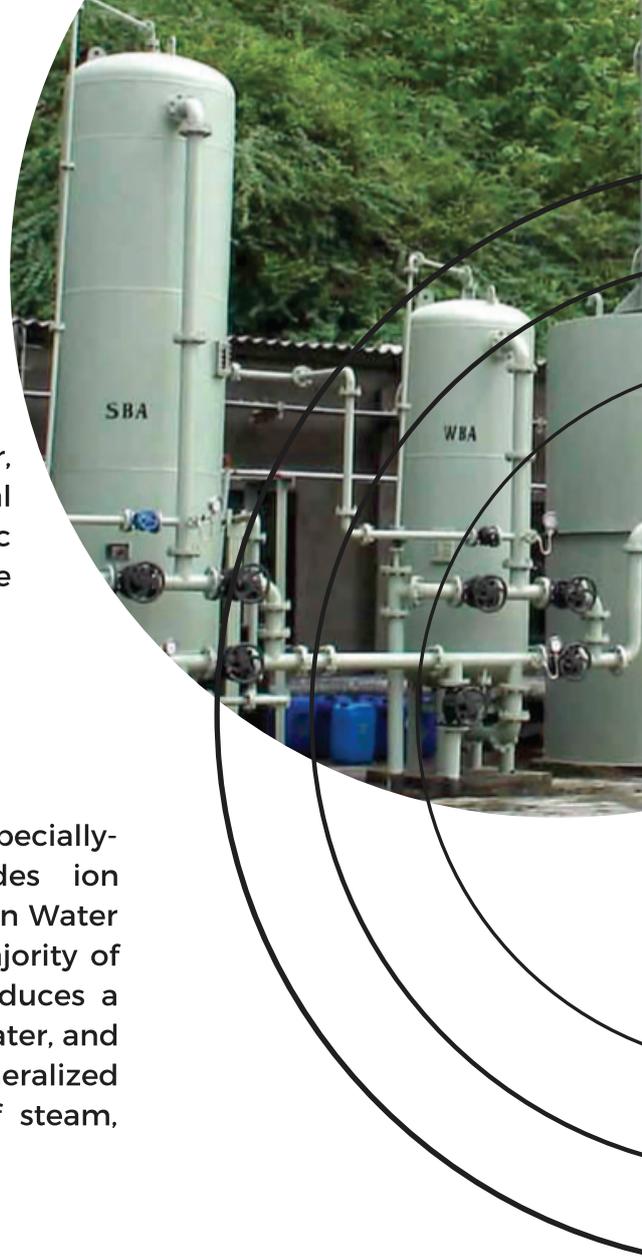
Water parameters at Input and output to be monitored regularly

04

Periodic regeneration is needed for effective plant operation

PLANT COMPONENTS

- Cation Resin
- Anion Resin
- Regeneration Chemicals
- Container Vessels
- Mounting Structures
- Piping's
- Access Panel
- Valves and fittings
- Flow Measuring Instruments
- Other accessories



SOFTENING PLANT

Water softening is the removal of calcium, magnesium, and certain other metal cations in hard water. The resulting soft water requires less soap for the same cleaning effort, as soap is not wasted bonding with calcium ions.

TECHNOLOGY

Water Softeners remove hardness from water by a process known as ion exchange. The media, called resin; in the softener is charged with sodium (or potassium) ions. When the hardness ions come in contact with the resin beads the hardness ions are collected and the sodium (or potassium) ions are released, thus the term ion exchange. The hardness ions are exchanged for sodium (or potassium) ions.

KEY FACTS

01

Brine should be introduced at optimum salinity, flow rate & time

03

Softening Plant is recommended to control Hardness of water

02

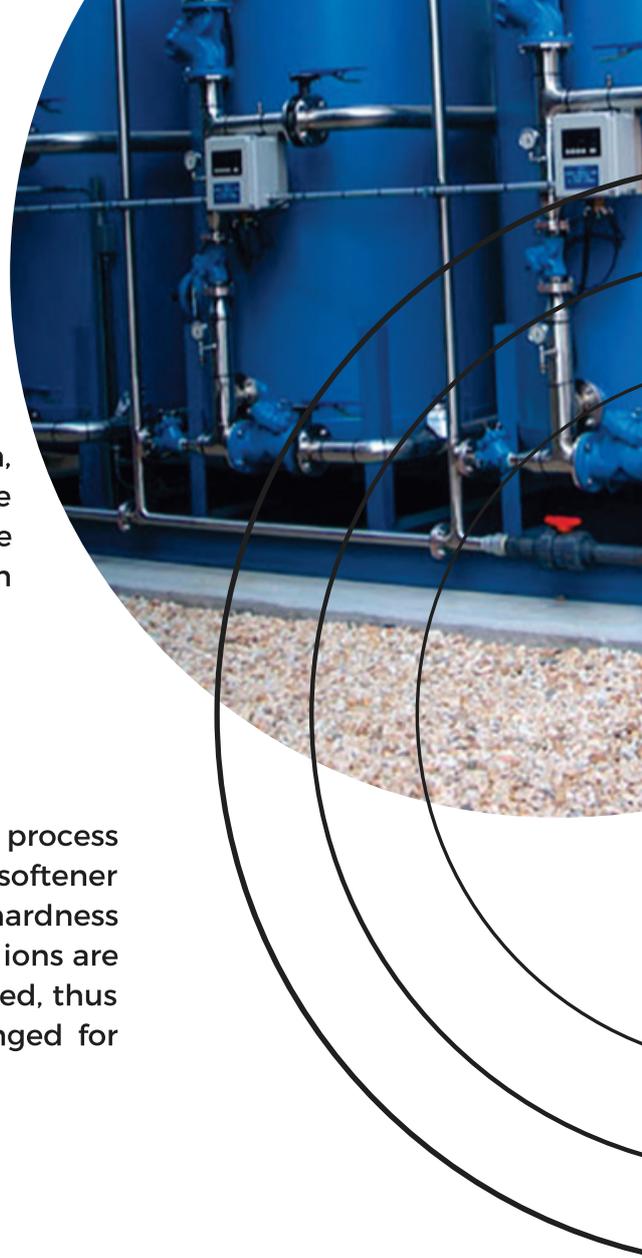
Regenerating resin bed refreshes plants ability to exchange ions.

04

Periodic regeneration is needed for effective plant operation

PLANT COMPONENTS

- Resin
- Feed Pump
- Regeneration Chemicals
- Container Vessels
- Mounting Structures
- Piping's
- Access Panel
- Valves and fittings
- Flow Measuring Instruments
- Other accessories



MULTIMEDIA PLANT

Pressure vessels with sand or other loose media are widely used in industrial filtration applications. During the cleaning cycle, called "backwash", the bed is lifted (or "fluidized") to loosen the filter media and release trapped dirt which is removed in the backwash flow.

TECHNOLOGY

Multimedia filtration refers to a pressure filter vessel which utilizes three or more different media as opposed to a "sand filter" that typically uses one grade of sand alone as the filtration media. In a single media filter, during the "settling" cycle, the finest or smallest media particles remain on top of the media bed while the larger, and heavier particles, stratify proportional to their mass lower in the filter.

KEY FACTS

01

A well operated plant can remove particulates <15-20 microns

03

Multimedia Plant control 's suspended solids in water

02

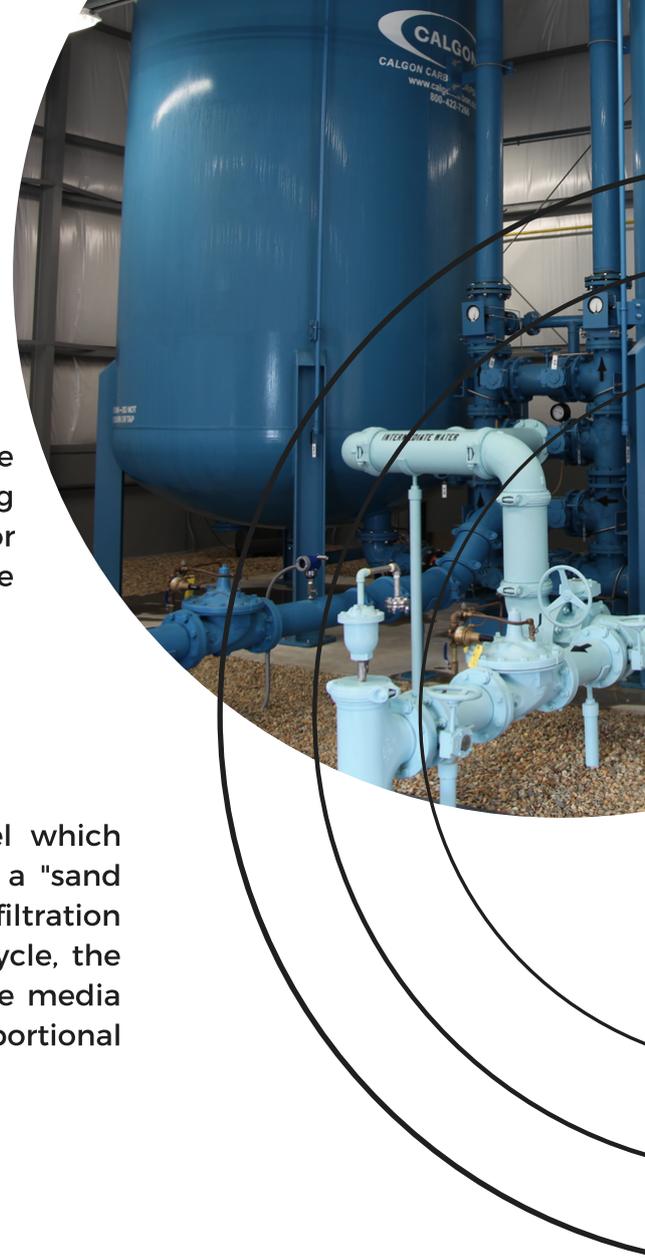
The marketing agency may also make recommendations

04

Periodic backwash is needed for effective plant operation

PLANT COMPONENTS

- Media (Sand, Pebbles, Silex, etc)
- Activated Carbon
- Regeneration Chemicals
- Container Vessels
- Mounting Structures
- Piping's
- Access Panel
- Valves and fittings
- Flow Measuring Instruments
- Other accessories





AUDIT AND MAINTENANCE

OUR SERVICES

DEVELOPED WITH QUALITY TO SERVE
CHALLENGES OF OUR CUSTOMERS

www.microchemicals.in

BOILER DESCALING

- Pre Assessment Report
- Action Plan
- Project Charter
- Execution
- Post Assessment Report
- Handing Over

Scale accumulation along the waterside of boilers and boiler tubes will rob the equipment's heat transfer efficiency. This scale accumulation can be made of rust, calcium, limescale and many other mineral deposits.

These unwanted insulators accrue from several factors, including but not limited to: Operating hours, feed water hardness, operating temperature and boiler treatment and maintenance.

Micro Chemicals provides Descaling services for Boilers along with descaling chemicals and ensure timely completion and Boiler overhaul and regular boiler assessments



THINGS TO REMEMBER

Always make sure you have adequate access to water for wash off, in case of emergency. The room should also have good ventilation. Never carry out this procedure without a buddy system in place. Always read Material Safety Data Sheets and keep on hand during cleanings

EQUIPMENT ERECTION COMMISSIONING

- Site Assessment
- Scope Matrix
- Temporary Warehouse management
- Project Execution
- Project Report
- Handing Over

Erection & Commissioning stage is construction work including placing equipment. Erection and commissioning and testing is a systematic and sequential process, the starting up of the plant which include the Loop Checking to Pre-Commissioning and to final start up. and testing & Commissioning stage is started from loop test from all field instrument then run solo run test for Equipment.

Micro Chemicals provides Equipment Erection services for water treatment Plants and ensure timely completion along with periodic maintenance troubleshooting and Plant operation Chemicals and Accessories.



THINGS TO REMEMBER

Use Safety systems and accessories during erection and commissioning of equipment's and site components. Always read Material Safety Data Sheets and keep on hand during cleanings. Ensure to follow Project plan and Scope of work.

WATER BALANCING AUDIT

- Site and Equipment's Assessment
- Sample Collection
- Sample Processing
- Tests and Data Validation
- Reports and Corrective Actions

A water balance audit is used to determine how much water is being lost in a water distribution system. In order to make this determination, information about the amount of water produced is compared to the amount of water distributed and billed. The difference between the two is generally termed "water loss." water balance audits usefulness is in helping to make water systems more efficient.

Micro Chemicals provides water systems auditing for industrial water treatment Plants. Through site and equipment assessment and water sample testings Micro Chemicals generates plans for effective water system management.



THINGS TO REMEMBER

It is crucial to determine the source of water loss. Water audits help to find out whether water is being lost through breaks in piping, through theft, or through faulty flow measurement or errors in accounting. Once the source of water loss is determined, water utilities can take steps to resolve problems in the system.

WATER TREATMENT CONSULTANCY

- Voice of Customer and Site
- Plant water requirements
- Raw water Assessment
- Water Treatment Plant PFD
- Budgeting and Procurement Plan
- Project Plan

Our knowledge of the environmental impacts of water developments enables us to undertake projects in a way that will improve quality of life for beneficiaries - without damaging the environment. We advise on projects to realize new assets, and keep existing ones running, through our detailed understanding of the technical and commercial factors affecting the water and wastewater sector.

Micro Chemicals provides water consulting for industrial water treatment Plants. right from customers objectives and site requirements, Micro Chemicals generates plans for effective water treatment systems.



THINGS TO REMEMBER

The water and wastewater sectors face unprecedented challenges - ageing infrastructure, population growth, water scarcity and climate change. We focus on organized planning to improve operational flexibility and reliability; free stranded capacity; and defer, lower or eliminate unnecessary costs.

MPURE PRODUCTS

BOILER WATER TREATMENT CHEMICALS

SCALE DISPERSANT

Product Code: M PURE 6000

M PURE – 6000 is a deposit control agent specially designed for the control of calcium scale and silica scale in boilers. It contains low molecular weight polyanionic compound as one of its ingredients. Water treated with M PURE – 6000 can be discharged directly into the effluent without any pollution problems.

SCALE INHIBITOR CUM PH BOOSTER

Product Code: M PURE 6001

M PURE – 6001 is an internal boiler water treatment designed for boilers operating at pressures below 1200 psig. It is recommended for use in boilers using softened/de-alkalizes make-up.

M PURE – 6001 combines polyphosphate with polymeric scale inhibitors and sludge conditioners to provide protection against mineral scale and sludge deposits that interfere with heat exchange and it maintains the pH in control limits.

SCALE INHIBITOR

Product Code: M PURE 6012- M

M PURE – 6612-M is a synergic blend of inorganic and organic chemicals designed for the control of corrosion and scale in boiler internals.

The specific corrosion inhibitor in M PURE – 6612-M provides corrosion protection by the formation of a protective passive film on the metal surfaces. The protective layer prevents direct contact of the corrosive media with the metal surface.

CORROSION CUM SCALE INHIBITOR

Product Code: M PURE 6612

M PURE – 6612 is a synergic blend of inorganic and organic chemicals designed for the control of corrosion and scale in boiler internals.

M PURE – 6612 also contains a powerful threshold inhibitor to prevent scale formation in feed water pipelines and boiler internals.

SLUDGE CONDITIONER CUM OXYGEN SCAVANGER

Product Code: M PURE 6621

M PURE – 6621 is an excellent sludge conditioner specially designed for the internal treatment of boiler water. It contains highly effective antiscalants to afford total protection against scale and deposit formation. A unique single blend for low and medium pressure boiler, using low temperature unsoftened feed water.

OXYGEN SCAVENGER

Product Code: M PURE – 6666

M PURE – 6666 is a catalysed oxygen scavenger for rapid and complete removal of oxygen from boiler water.

pH BOOSTER

Product Code: M PURE – 1001

M PURE – 1001 boiler water pH booster is an alkaline formulation, used as alkalinity source for boiler feed water. It is synergized with properties of pH boosting and water conditioning.

MPURE PRODUCTS

COOLING TOWER WATER TREATMENT CHEMICALS

ANTISCALANT	Product Code: M PURE 5577 M PURE – 5577 is a high performance Antiscalant designed for use in open re-circulating cooling water system. The liquid formulation is based on synthetic polymers, sequestrants and cathodic, anodic corrosion inhibitors, developed as a single product treatment. This product helps to control scale deposition by sequestration and dispersion of deposit forming substances as well as by crystal distortion.
SCALE DISPERSENT	Product Code: M PURE 5578 M PURE – 5578 is a high performance scale dispersant designed for use in open re-circulating cooling water system. The liquid formulation is based on synthetic polymers, sequestrants and cathodic, anodic corrosion inhibitors, developed as a single product treatment. This product helps to control scale deposition by sequestration and dispersion of deposit forming substances as well as by crystal distortion.
SCALE INHIBITOR	Product Code: M PURE 5579 M PURE – 5579 is a high performance scale inhibitor designed for use in open re-circulating cooling water system. The liquid formulation is based on synthetic polymers, sequestrants and cathodic, anodic corrosion inhibitors, developed as a single product treatment. This product helps to control scale deposition by sequestration and dispersion of deposit forming substances as well as by crystal distortion.
SCALE CUM CORROSION INHIBITOR	Product Code: M PURE 5599 M PURE – 5599 is a high performance scale and corrosion inhibitor designed for use in open re-circulating cooling water system. The liquid formulation is based on synthetic polymers, sequestrants and cathodic, anodic corrosion inhibitors, developed as a single product treatment. This product helps to control scale deposition by sequestration and dispersion of deposit forming substances as well as by crystal distortion.
BIOCIDE PRETREAT	Product Code: M PURE 5570 M PURE – 5569 is a high performance scale dispersant designed for use in initial bio cleaning in re-circulating cooling water system. The liquid formulation is based on synthetic polymers, sequestrants and cathodic, anodic corrosion inhibitors, developed as a single product treatment.
PRIMARY BIOCIDE	Product Code: M PURE 5570 M PURE-5570 is a highly effective, environmentally friendly biocide. It provides a quick kill while also quickly degrading in water. The final end product is carbon dioxide and ammonium bromide
SECONDARY BIOCIDE	Product Code: M PURE 5571 M PURE – 5571 is a low toxicity biocide/preservative for a wide variety of aqueous finished products. It is effective against bacterial and fungal spoilage

MPURE PRODUCTS

CHILLER WATER TREATMENT CHEMICALS

CORROSION CUM SCALE INHIBITOR

Product Code: M PURE 7179

M PURE - 7179 is used to control scale corrosion in aqueous cooling systems. It is a very effective corrosion inhibitor and affords multi metal protection.

M PURE - 7179 provides corrosion inhibition by metal passivation and effective film formation. Scale formation is controlled by the latest antiscalants incorporated in the products M PURE - 7179 displays excellent compatibility with ethylene glycol in closed recirculatory system.

EVAPORATOR WATER TREATMENT CHEMICALS

EVAPORATOR ANTISCALANT

Product Code: M PURE 888

M PURE - 888 is an effective single blend designed for the control of corrosion, scaling and fouling in open evaporative recirculating cooling water systems. It contains both cathodic and anodic corrosion inhibitors besides antiscalants and dispersants. It is effective in systems having moderately hard water. The corrosion inhibitor in M PURE - 888 forms a protective film on the metal surface. The antiscaling components provides excellent inhibition of scalents like calcium and magnesium salts. The dispersant incorporated in M PURE - 888 prevents the accumulation of silt, clay, corrosion products etc.

AHU WATER TREATMENT CHEMICALS

AHU CLEANER

Product Code: M PURE 2000

M PURE - 2000 is specially formulated for the purpose of cleaning the AHU systems in Industries and this plays a strong dispersing role against the hard scaling and biological growths on the system.

AHU POST CLEANER

Product Code: M PURE 2000

M PURE - 2001 is specially formulated for the purpose of cleaning the AHU systems in Industries and this product is dosed at last for the formation of a film on the surface of the system to prevent the scaling.

MPURE PRODUCTS

PAINT APPLICATIONS

BIOCIDES CUM PRESERVATIVE

Product Code: M PURE 5550

BIO - 5550 biocide is an active ingredient formulation to preserve paints, binder dispersion and other products.

BIO - 5550 contains active substances permitted by the BFR and FDA for use in their application field, provided that the customary dosage rates are not exceeded.

DEFOAMER

SILICON DEFOAMER (LOW VISCIOUS)

Product Code: M PURE 200

M PURE DF - 200 is a hybrid functional fluid emulsion. Micro Chemicals Defoamers are designed to provide optimum antifoam performance combined with good dilution stability and good foam knock down performance.

SILICON DEFOAMER (HIGH VISCIOUS)

Product Code: M PURE 300

M PURE DF - 300 is a high performance hybrid functional fluid emulsion. Micro Chemicals Defoamers are designed to provide optimum antifoam performance combined with good dilution stability and good foam knock down performance.

DISINFECTANT

DISINFECTANT

Product Code: M PURE DISINFECTANT

Disinfectants are antimicrobial agents that are applied to the surface of non-living objects to destroy microorganisms that are living on the objects.

MPURE PRODUCTS

RO CHEMICALS

ANTI SCALANT

Product Code: Mpure 320, 330, 340, 350, 360.

The inhibition and dispersion done by Antiscalant Chemical helps extend run times of a reverse osmosis system while reduce cleaning frequencies and increase the overall productivity of RO Elements.

pH BOOSTER

Product Code: Mpure 1000

pH Booster Chemicals control of pH and alkalinity levels in water helping your systems achieve greater working performance and long service life.

RO CLEANING CHEMICALS

Reverse Osmosis membranes and other membrane systems need periodic cleaning and servicing. For optimal performance specific chemicals are required, depending on the cause of the pollution.

SOFTENING PLANT CHEMICALS

RESIN

Water treatment is principle application of ion exchange resins. According to requirement of water quality for various industries, several water treatment processes based on ion exchange resins are developed. After every service cycle, the resin is backwashed with water followed by regeneration with 5-15% of NaCl solution. This surplus of sodium ions make the exhausted resin to release hardness ions picked up during softening /service cycle and resin is back to its original sodium form to take on the next cycle. Ion exchange cannot remove suspended matter.

MULTIMEDIA PLANT COMPONENTS

FILTER MEDIA

The filter "media" start with fine sand on the top and then graduatngly coarser sand in a number of layers followed by gravel on the bottom, in gradually larger sizes. The top sand physically removes particles from the water. The job of the subsequent layers is to support the finer layer above and provide efficient drainage.As particles become trapped in the media, the differential pressure across the bed increases. Periodically, a backwash may be initiated to remove the solids trapped in the bed. During backwash, flow is directed in the opposite direction as normal flow. In multi-media filters, the layers in the media re-stratify due to density differences prior to resuming normal filtration.

MPURE PRODUCTS

WASTE WATER TREATMENT

POLY ELECTROLYTE

Polycations and polyanions are polyelectrolytes. These groups dissociate in aqueous solutions (water), making the polymers charged. Polyelectrolyte properties are thus similar to both electrolytes (salts) and polymers (high molecular weight compounds) and are sometimes called polysalts.

DECOLORANT

Decolorant is widely used in waste water treatment especially for dyeing wastewater with activated color and dispersing color. It is mainly used for color removal treatment from waste water due to process effluents plants.

DEFOAMER

A defoamer or an anti-foaming agent is a chemical additive that reduces and hinders the formation of foam in industrial process liquids. The terms anti-foam agent and defoamer are often used interchangeably.

pH BOOSTER

pH Booster Chemicals control of pH and alkalinity levels in water helping your systems achieve greater working performance.

pH REDUCER

pH Reducer Chemicals control of pH and alkalinity levels in water helping your systems achieve greater working performance.

PLANTS AND ACCESSORIES

ACCESSORIES

Micro Chemicals designs and integrates various industrial water treatment plants such as RO Plant, Softening Plant, DM Plant, Ozone, Ultra filtration, bag filters, multigrade filters, Sand and Carbon filters, etc and all its Accessories.



MMICRO CHEMICALS & PLANTS PVT LTD

We Believe in amazing Chemistry

WATER TREATMENT CHEMICALS | PLANTS

**Grow your
business
with us**

REACH US

1/339, Andipalayam,
Tiruchengode-637214
04288 - 286405

info@microchemicals.in
www.microchemicals.in