



Save Water
Safe Life



AMAZONE
CHEMICALS

A TRUSTED NAME WORLDWIDE



A Little About us

We are a team of professionals i.e Chemical Engineers, Mechanical Engineers & Qualified Chemists for the specified job, Selling quality products and after sale services are the speciality of Amazone. We feel that we are making addition in success of our valuable clients. We look forward to an opportunity to work with you jointly in improving the plants efficiency and your environmental concern by giving the excellent water treatment programs

Objective

Our Purpose is not only the customer satisfaction but also to exceed customer expectation.

Services

On site testing by field staff,
Fabrication for water softening units,
Water treatment chemicals and allied services,
Lab facilities, after sale, service and monitoring,
R.O Plans, DM plants & EDI plants training of the clients of site
Regular follow up the performance of the Chemicals at the respective units.



Water Treatment Chemistry



Cooling Water Treatment

A comprehensive range of pre-commission cleaning, flushing and passivating agents Inhibitors to control scale corrosion and fouling.

A wide range of oxidizing and non-oxidizing biocides, biodispersants and microbiological control systems that can protect the wet and warm surfaces which normally attract microorganisms. If uncontrolled, the resulting bio-films can result in microbiologically influenced corrosion and system efficiency issues

Computer simulation programs to optimise the system with respect to saturation indices, retention times, half life, cycles of concentration and choice of treatment. Selection of water treatment programmes is made on technical and cost merits, which in turn requires specialist knowledge of our sales engineers and technical centre.

BOILER WATER TREATMENT

Amazone provide a complete range of products suitable for every type of boiler from low pressure steam generators to high pressure water tube systems,

- Volatile and non volatile oxygen scavengers
- Phosphate residual program
- All polymer programs
- Sludge conditioners
- Defoamers
- Alkalinity builders
- Condensate treatments
- A comprehensive range of filming, neutralising and combined amines for condensate treatment and pH correction boilers of a high evaporative rate and heat flux.

REVERSE OSMOSIS PLANT CHEMICALS

Amazone offers a full line of RO chemicals that are compatible with all types of membranes, with approvals and accreditations from market leading membrane manufacturers.

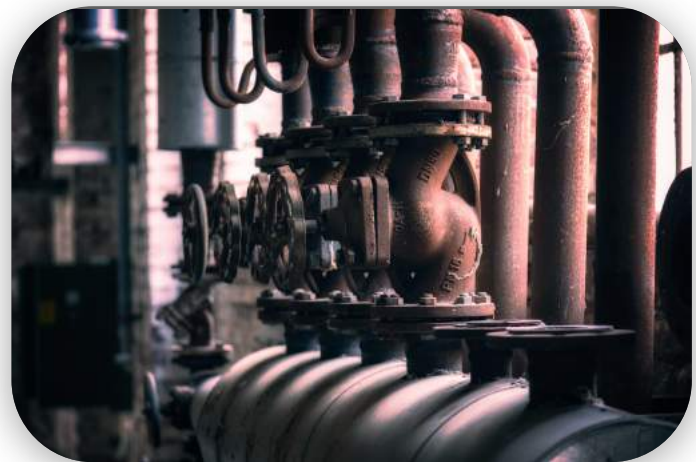
The chemicals Amazone offer are highly effective at low dose rates in a wide range of feedwater types (brackish, seawater, fresh), and across the whole pH spectrum. The chemicals are also compatible with polyelectrolytes.

Amazone also offers:

- Biocides
- Descalers
- Antiscallent
- Green chemistries with full biodegradation, but zero biofouling potential.
- Full line of RO chemicals that are compatible with all types of membranes,



Cooling Towers



HVAC



Reverse Osmosis Plant Chemicals

SUGAR & DISTILLERY SOLUTION

Pakistan is the sixth largest sugar producer in the world & the sugar is second biggest agro-based industry in the country. Other hand: ethanol production through molasses also increasing every year.

Amazone Chemicals feels refreshed to become a part of Sugar & Distillery industry in the country to provide the complete range of sugar process chemicals & distillay manufacturing chemicals solutions.

Sugar Processing Chemicals

- Polyelectrolyte / Flocculants for juice clarification,
- Polyelectrolyte / Flocculants for floatation aid,
- Decolorizing agent,
- Biocides,
- Defoamer,
- Antiscalant,
- Enzymes (Improve profitability through process efficiency).



Molasses Distillery Solutions

- Enzymes for fermentation
- Antifoam (Food Grade)
- Antibiotic
- Antiscalant



Engineering Business



Reverse Osmosis System

Manufacturing of Reverse Osmosis Systems is a fast growing business of Amazone Chemicals. Hundreds of R.O. plants, with capacity upto 150 m³/hr, have been successfully installed in industries all over Pakistan. Amazone Chemicals has best team of professionals for all aspects of plants from designing to commissioning.

- Sea & brackish water reverse osmosis systems,
- High quality R.O. Components from USA / Europe,
- High quality corrosion resistant material of construction,
- High pressure pumps by USA / Europe,
- Suitable for continuous and heavy duty operations,
- Low capital and operational costs,
- Compact space-saving construction,
- Production of high quality drinking water for villas, restaurants & bottling plants,
- Complete automation of the operating systems,
- Completely portable units in containers available on request,



We also deal in:

- Membrane Cleaning (CIP) Chemicals,
- Antiscale and biocide for R.O. plants,
- Chlorination and dechlorination Chemicals,



Water Softening Plants

Water Softening Plant is an equipment that removes hardness/scale causing salts from hard water. It is achieved by ion-exchange technique. Normally, strong Cation Exchange resins are used in water softening plants. These resins remove all Calcium (Ca⁺⁺) & Magnesium (Mg⁺⁺) salts that cause scale in water systems.

- Suitable solution for low TDS Water
- Complete removal of calcium and magnesium
- Suitable for low-pressure boilers
- Suitable for cooling towers
- Very cost-effective and simple in operation
- With manual and automatic operation (Optional)
- With metallic or FRP vessels (Optional)
- With high quality cation resin
- With quality parts from Europe / USA



Demineralization Plants

D.M. plants remove all salts by ion exchange technique. This is achieved by using two columns of ion exchangers simultaneously i.e., cation & anion beds. Some special plants may have both (i.e., cation & anion) resins in one column as mixed bed column. The performance of these water treatment plants has been proven excellent.

- Suitable for high pressure boilers,
- Can achieve water quality of $0.01 \mu\text{S}/\text{cm}$,
- With manual and automatic operation (optional),
- With metallic or FRP vessels (Optional),
- With high quality anion and cation resin,
- With quality parts from Europe / USA.



Effluent Treatment Plant Chemicals

Amazone Chemicals is also involved in designing, installation and commissioning of Effluent Treatment Plants (ETP) in the last few years. The performance of these water treatment plants has been proven excellent. Amazone Chemicals also has a complete range of treatment chemicals for effluent treatment plants.

Coagulants,
Flocculants,
Decolorizer.



Dosing System



According to OdourPro; "A chemical dosing system is a facility for automated injection of reagents into a wastewater network for the control of septicity and odour emissions." While according to cannonwater.com; "The pump draws a fixed volume of a chemical into the chamber, and then injects it into a pipe or a tank that may contain water or fluid to be dosed. The pump is driven by an air actuator or an electric motor"

Amazone Chemicals develops a wide range of Dosing devices, Acid dosing pumps, Electro-Magnetic dosing pumps, Chemical Dosing pumps & Peristaltic pumps.



Controllers

Amazone Chemicals' controllers combine consistent performance and user-friendly features. "High-tech microprocessor-based Controllers are designed to measure and control pH value". Amazone Chemicals provides pH, Conductivity and ORP controllers.



RO Membranes & Resins



Reverse osmosis membrane separation is a method of water treatment in which sufficient pressure is applied against a feedwater to force it through a semipermeable membrane and separate water molecules from other constituents within the water.

Amazone Chemicals also has cartridge filters ranging from 5 micron to 0.01 micron. In addition, we have back filters and multi-media filters



"Ion exchange is the reversible interchange of ions between a solid (the ion exchange resin) and a liquid. Since they act as 'chemical sponges', ion exchange resins are ideally suited for effective removal of contaminants from water and other liquids". That's why resins are used to soften water.

Amazone Chemicals also offer Silica sand & Resins in water treatment.



Resin



Activated Carbon



Silica Sand



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