



The answer to all your  
water treatment needs



At **Radiant Chemical (Pvt.) Ltd.**, we are more than just a provider of water treatment products and services. We are your partner in reducing operating costs and maximizing the return on your chemical investment.

Our team of experts is dedicated to offering technical support and customized solutions for boilers, cooling towers, chillers, generators, reverse osmosis systems, and ion exchange resins. We understand the importance of meeting your industrial water treatment and processing needs.





## Industries We Serve

- Automotive
- Cement
- Textile
- Pharmaceutical
- Steel & Allied
- Petrochemicals
- Food & Beverage
- Dairy
- Power Generation
- Commercial Buildings
- Hospitals
- Paper & Board
- Plastics & Packaging

## Water Treatment Solutions

- Water Treatment Chemicals
- Water Treatment Plants
- Industrial Cleaning Chemicals
- Wastewater Recycling
- Sewage Treatment Plants
- Gas Turbine Compressor Cleaner
- Activated Carbon
- Ion Exchange Resin
- UF Modules
- RO Membranes





## Boiler Chemicals

Boiler chemicals are used in many commercial, manufacturing and industrial processes. We provide effective boiler feedwater and condensate treatment chemicals to prevent corrosion, sludge and scale deposition. At Radiant, we understand the importance of effective boiler water treatment. Our dedicated team works closely with customers to provide innovative solutions that address their specific needs.

Our range of boiler water treatment chemicals includes:

- Oxygen Scavengers
- Corrosion Inhibitors
- Condensate Treatment
- Sludge Conditioners
- Scale Inhibitors
- Dispersants

## Cooling Water Chemicals

Maintaining optimal cooling tower efficiency is crucial. Our company offers effective chemical treatment programs to prevent scale, corrosion and biological fouling. By addressing these factors, we help you maintain efficient and cost-effective cooling tower operations.

Our range of cooling water treatment chemicals includes:

- Antifoams
- Biocides
- Biodispersants
- Corrosion Inhibitors
- Corrosion & Scale Inhibitors
- Scale Inhibitor & Dispersants
- Dispersants





## Reverse Osmosis Chemicals

Our advanced chemical products combat mineral scale, fouling, and impurities in reverse osmosis systems. With RO anti-scalants, scale inhibitors, biocides, and membrane cleaners.

Our product range includes:

- Biocide
- Scale Inhibitors
- Dispersants
- Membrane Acid Cleaner
- Membrane Alkaline Cleaners

## Closed Circuit Chemicals

To prevent the accumulation of corrosion products and fouling in closed circuits, Radiant provides a range of products tailored for gas and diesel engines, chilled water systems, water-cooled compressors, and hot water systems. Our comprehensive closed loop water treatment solutions combat scale, rust, and microbial growth.

- Engine Coolants
- HVAC & Compressor Corrosion Inhibitors





## Industrial Cleaning Chemicals

Radiant offers heavy-duty detergents, scale and rust removers, pre-commissioning cleaners, and oil dispersants for industrial cleaning applications.

- Boiler Water Boil Out, Cleaner & Dispersant
- Air Cooler Cleaner
- Descaler
- Condenser Coil Cleaner

## Gas Turbine Compressor Cleaner

Turbo-K®, our highly effective gas turbine compressor cleaner, optimizes offline and online washing. Developed with advanced surfactant chemistry, Turbo-K® offers exceptional cleaning power, addressing issues faced by operators during washing processes. We provide an extensive range of products by FP Turbomachinery



## Water Treatment Plants

Water purification involves eliminating impurities from untreated water to create water suitable for various purposes, primarily human consumption but also for chemical, industrial, medical, and pharmaceutical applications.

General methods:

- Physical filtration
- Chemical filtration
- Biological treatment

## Media and Carbon Filters

Our media filters effectively remove suspended solids from water in pre treatment systems. Activated Carbon filters eliminate organic compounds and oxidizing agents. We specialize in custom-built filtration plants tailored to specific requirements.



## Water Softening & Demineralization Plants

Our customized water softening and demineralization plants remove calcium, magnesium and other minerals from water, preventing scale deposits in industrial equipment. We cater to diverse needs, from drinking water applications to pharmaceutical production and food processing.

## Ultrafiltration Plants

Ultrafiltration is a low-pressure membrane process used for removing bacteria, viruses, and particles from water. We provide ultrafiltration plants for various applications.

### Applications of Ultrafiltration

- Drinking Water
- RO Pretreatment
- Process Water
- Purification of surface and well water for portable applications
- Wastewaters recycle and reuse



## Ultrafiltration Modules

Ultrafiltration (UF) is a highly effective physical water treatment process suitable for diverse water types, offering superior purification compared to conventional methods like media filtration. It efficiently removes bacteria, viruses, colloidal materials, and silt, providing safe and high-quality water for numerous applications. With its cost-effectiveness and efficiency, UF on hollow fiber membranes is widely used in domestic, municipal, and industrial water treatment.

Applications:

- Drinking Water
- Process water
- Desalination Pre-Treatment
- Pool Water
- Mobile Units
- Recycling Wastewater

## Reverse Osmosis Plants

We provide tailor-made commercial and industrial reverse osmosis plants designed to meet specific demands for various water applications, including drinking water, pharmaceutical production, boiler feed water, and food processing. Our plant sizes vary from 10,000 gallons per day (GPD) to over 500,000 GPD, effectively reducing Total Dissolved Solids (TDS) by up to 99%.

Applications:

- Drinking Water
- Boiler Feed Water
- Ion Exchange Pre-treatment
- Beverage Production







## Reverse Osmosis Membranes

Our company provides top-quality reverse osmosis (RO) elements suitable for diverse industries and applications. These RO elements are utilized in industrial water treatment, power generation, food & beverage processing, municipal desalination, and water reuse projects.

Contact us for:

- Membrane replacement
- Increased output and water recovery
- Improved quality
- Lower energy costs

## Ion Exchange Resins

Our company provides an extensive range of ion exchange resins that cater to various applications, including industrial water softening, demineralization, ultrapure water production, condensate polishing, sweetener purification, and metal recovery in mining processes.

- Industrial Water Resins
- Power Generation Resins
- Ultrapure Water Grade Resins
- Food Grade Resins
- Chemical Process & Mining
- Drinking Water Grade Resins





## Activated Carbon

Activated carbon is used to purify liquids and gases in a variety of applications, including municipal drinking water, food and beverage processing, odor removal, industrial pollution control. Activated carbon is produced from carbonaceous source materials, such as coconuts, nutshells, coal, peat and wood.

We provide an extensive range of activated carbon from Jacobi Carbons AG.

## Commercial and Residential Wastewater

Radiant Chemical partners with Biomicrobics (USA) to provide innovative, certified waste water solutions for sustainable water reuse, addressing global challenges. Affordable, long-term performance for residential, commercial, and industrial projects.

Potential Water Reuse:

- Lawn and Landscape Irrigation
- Toilet Flushing
- Garden / Greenhouse / Hydroponics Irrigation
- Fountains & Decorative Water Features
- Aquifer / Groundwater Recharging





## Industrial Wastewater Reuse and Recycling

As water scarcity and costs increase, industrial wastewater recycling becomes crucial. Our customized solutions provide turnkey systems to condition wastewater for re-use, conserving water and improving profitability.

Treated wastewater can be used as:

- Make-up Water for cooling towers, boilers, firefighting, and washing/rinsing.
- Process Water
- Non-potable water for restrooms and landscape irrigation

### Our Partners



### OEM Approved Coolants for:





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