

AN ISO 9001: 2015, 14001:2015, 18001:2007 CERTIFIED COMPANY



"Serve Advanced Water and Fuel Treatment"



**Energy
&
Environment Savers**

"Understanding of Water & Fuel Challenges Facing by Industries"

ALTRET understands issues of Industries related to utility operation and energy as they pertain to water and fuel and has experience in helping organizations achieve goals, such as:

- Production & Energy Efficiency
- OPEX Reduction
- Product Quality & Its Consistency
- Speed to Market
- Regulatory Compliance
- Risk Mitigation / License to Operate
- Corporate Sustainability Initiatives

ALTRET Industries is a trusted organization as a water and fuel treatment, cleaning solutions provider all over the India and has successfully served the Industries since more than three decades.

ALTRET's experts deliver creative and effective water & Combustion solutions as per the needs of our clients. A customer-focused culture combined with a portfolio of more than 300 proprietary products makes ALTRET preferred partner for all water and combustion and Hygiene care related Needs.

ALTRET has exceptional diagnostic skill to understand technical problems along with water chemistry. ALTRET experts serves on-site and at the lab to provide tailor made solutions, analyses and initiate to stabilize treatment in order to establish state-of-the-art, technologically advanced chemical solutions.

ALTRET's highly result oriented water treatment specialty chemicals target boilers, cooling towers, reverse osmosis, thermal evaporators and other heat transfer systems / utility systems that ensures customer a trouble-free operations.

ALTRET treatment improves process and ultimately result in profit. The correct chemical solutions and proactive service at the site increases operational performance.

Range of versatile products for industry:

- Boiler Water Treatment
- Cooling Water Treatment
- Boiler Fireside Treatment/ Combustion Monitoring Chemicals (CMC)®
- Membrane Antiscalants and Cleaners
- Performance Chemicals Based On Surfactants and Polymers (Per-mole)®
- Pretreatment Chemicals / Cleaning Chemicals
- Hygiene Care Products for Good House Keeping (Trends)®

Value-Added Services Performed by experienced professionals:

- Startup and operations assistance
- Design & Monitoring the treatment program
- Standard test methods
Water Testing & Microbiological kits
- Annual Service Contracts
- Collection of System Data



Boiler Water Treatment:

ALTRET broader range of advanced boiler water treatment chemicals have been specifically developed to minimize scale formation, corrosion and sludge accumulation on industrial boiler, turbines, small to super critical power plant and process applications.

ALTRET superior quality boiler products and specialist additives focus on improving the operational efficiency of steam boilers, industrial boilers and process systems by offering convenient solutions to the problems associated with such installations.



Treatments

Description

Scale Preventive Programmes

Range of Chemicals based on Phosphate / Co-ordinate / phosphate / Carbonate cycles / Polymers - Chelants

Oxygen Scavengers/Corrosion Inhibitors

Catalyzed Sulphites / Bisulphite, Catalyzed Hydrazines, DEHA etc.

Sludge Conditioners/Dispersants

Natural organic polymers, Synthetic low molecular polymers

Condensate Corrosion preventive treatment

Low distribution ratio to High distribution ratio Amines and Blend of Amines

All volatile treatment

Volatile treatment for power plant boilers

Boil out treatment

A package to remove mills scales, Corrosion products, Oil & grease from newly installed system

Wet lay up treatment

Corrosion inhibitors for wet lay up of system

Cooling Tower Water Treatment:

Without a proper chemical treatment program, a cooling tower may begin to lose efficiency as a result of corrosion, scale deposition, and biofilm growth. ALTRET Cooling Water Treatments are designed to face all kinds of challenges, i.e. Corrosion, Scaling and deposits, Microbiological growth, Fouling for any kind of water such as DM, RO, Tube well, High TDS etc.

These problems cannot be considered separately, since they are inter-dependent. Therefore, a complete treatment is needed, based on the combination of different treatments.



Treatments

Description

Scale & Corrosion Preventive Programmes

Range of different scale & corrosion inhibitor programmes based on poly phosphate, phosphonates, copolymer, terpolymer, quad polymer and anodic and cathodic corrosion inhibitor, general corrosion inhibitors and their synergistic blends.

Specific Corrosion Inhibitors

Corrosion inhibitors for copper and copper base alloys. Corrosion inhibitors for chilling systems

Biodispersants

Range of biodispersants based on nonionic and Ionic surfactants.

Oxidising Biocides

Range of chlorinated & brominated biocides & their blends.

Non Oxidising Biocides

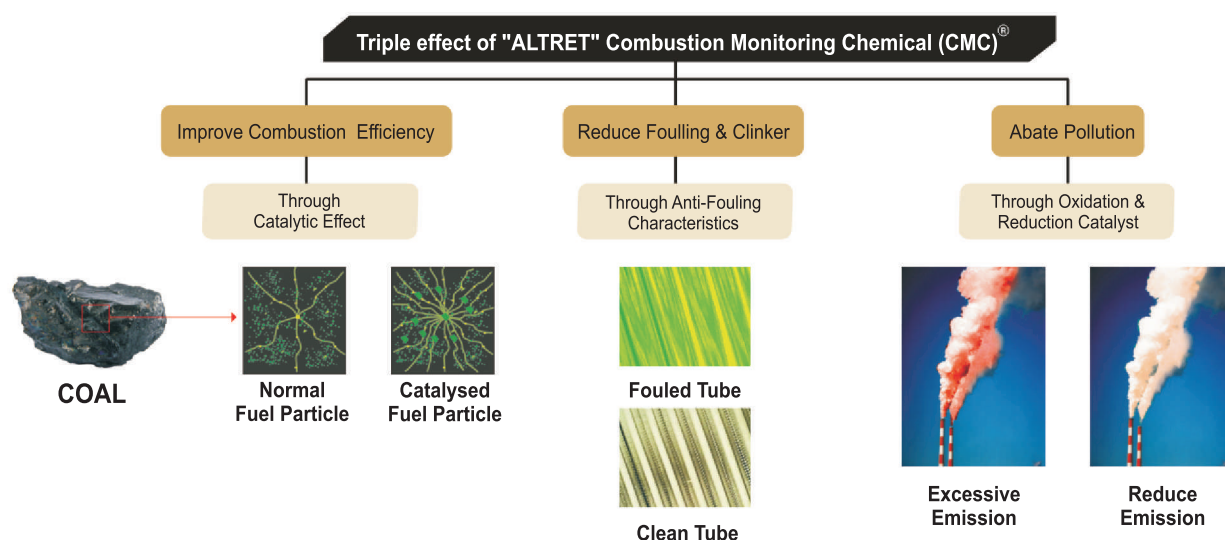
Range of Non oxidising biocides to control micro organism, algae, fungi, bacteria (aerobic & anerobic) depending on specific conditions.

Boiler Fireside Treatment/ Combustion Monitoring Chemicals:



The increased awareness towards EURO compliance, foreseen crisis of fossil fuel and through extensive AR&D efforts, ALTRET launched CMC 95/2K Series of Combustion Monitoring Chemicals/Fuel Additive.

This highly advanced series of fuel additives reduce the problems of slag, clinker, cold end corrosion, and acid smut associated with poor combustion for better heat exchange and dual effect, oxidation & reduction catalyst for lowering the emission levels. ALTRET fuel additive can certainly improve the overall performance of heat exchange equipment like boiler through catalytic and anti-fouling effect.



Membrane Antiscalants and Cleaners:

ALTRET having a broad range of Membrane Antiscalants and Cleaners to treat a variety of water conditions for commercial and industrial applications. RO systems create salt concentrated water streams that could produce scale or fouling.

ALTRET Membrane Chemicals are formulated to be compatible with all brands and types of RO, NF, UF membranes. It provides anti-scaling, antifouling capabilities and keeps fouling material in suspension. ALTRET Cleaners and Support Chemicals are the ideal choice for extending the life of membranes and obtaining a higher level of performance from the elements within the membrane system.



Performance Chemicals Based On Surfactants and Polymers: (For Pretreatment & Waste Water Treatment)

The ALTRET range of PERMOLE flocculants and coagulants include powder grade anionic, non-ionic, cationic and amphoteric polyacrylamides and also polydadmac, polyamine and dicyandiamide type liquid coagulants.

PERMOLE range of polymers varies in terms of physical (solid or liquid), ionic content (very low, low, medium, high or very high) and also molecular weight (low, medium, high or very high) to meet all customer needs. ALTRET supports to Industries to evaluate the correct technical approach, and the right organic chemistry that match the approach



Pre Cleaning & Passivation Treatment :



ALTRET Pretreatment Chemicals Minimize contamination and take care about corrosion protection during the complete manufacturing process. It also prevents potentially harmful pollutants originating at commercial and industrial properties from entering into the ground water or the storm collection system.

Our team advises the best pretreatment options after the complete survey of your current water treatment system to ensure that your facility operates as efficiently as possible and proactively find ways to avoid future challenges.

Online & Offline Cleaning Programme based on

- **Inhibited Acid base Descalents / Silicate Scale Removal**
- **Alkaline Base Descalant**
- **Acid Inhibitors-for 1) Different metals
2) Different acids**

Additional Range:

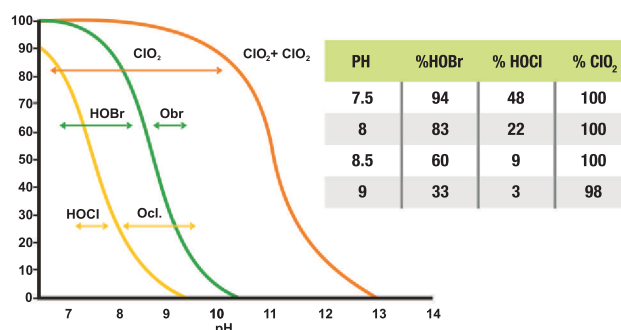
- **RO Antiscalants and Descalents and microbiology treatment**
- **Corrosion Inhibitor for DG set radiator**
- **Corrosion Inhibitor for specific application.**

Chlorine dioxide (ClO₂) delivery system:

ALTRET having a technically advanced two component powder based chlorine dioxide (ClO₂) delivery system that has been developed to create a quick and easy way of producing high purity of chlorine dioxide without the need for specialist equipment and having an excellent feature of reduction of residue and control microorganism or biofilm intermittent in water for Cooling Water System.

Chlorine Dioxide Generator – one of the most efficient solutions for ensuring water purity. It prevents the build-up of pathogenic micro organisms including Legionella, Pseudomonas and Cryptosporidium and biofouling within water systems, including, domestic, drinking and process water systems, providing peace of mind for building owners and operators. The system can be designed according to customer standards.

Dissociations of Hypochlorous Acid, Hypobromous Acid and Chlorine Dioxide Versus pH





CMC[®]



Per Mole[®]



ALTRET Industries Pvt. Ltd.

Corp. Office :

12/2881, "ALTRET" House, Saiyedpura Main Road,
Surat- 395 003. GUJ. INDIA.

Ph. : +91 - 261 - 2451807 - 808 - 809.



www.altret.com



info@altret.com - corporate@altret.com