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**CHEMETREAT™  
WATER & FUEL  
TECHNOLOGIES  
& SOLUTIONS**



Chemetreat™ Is Renowned Name In Water Treatment Chemicals. We Leverage Innovation, Expertise To Solve World Toughest Water Related Challenges May Be In Process Or Utilities.

We Have Consisting Been Endeavouring And Delivering Effective Water Treatment Chemistries To Control Corrosion And Scale In Cooling Water And Boiler Water Systems.

Chemetreat™ Offers Industrial Customers A Combination Of Expertise And Comprehensive And Customise Solutions Along With Monitoring And Services.

Our Solution Include Treatment Chemicals, Equipments And Services Those Are Perfectly Adapted To Protection And Safety Of Industrial Facilities.



## BOILER WATER TREATMENT

The boiler, steam generating unit, is the core of an industrial process or power industry. Necessity for maximum operating efficacy, optimal fuel and water consumption have added new dimensions and challenges to modern boiler water treatment solutions. Managing the feed, boiler and condensate water with the right water treatment chemicals will ascertain extended life of both boiler and associated equipment and effectively control Corrosion, Scaling and Fouling.



### CHEMETREAT™ RANGE OF PRODUCTS FOR BOILER WATER TREATMENT INCLUDE

Treatments	Description
Scale Preventive Programmes	Range of Chemicals based on Phosphate / Co-ordinate phosphate, Polymers & Sludge conditioners.
Oxygen Scavengers/Corrosion Inhibitors	Catalyzed Sulphites, Catalyzed Hydrazines, DEHA etc. Natural organic polymers, Synthetic low molecular polymers.
Condensate Corrosion preventive treatment	Volatile amine base treatment.
Boil out treatment	A package to remove mills scales, Corrosion products, Oil & grease from newly installed system.
Wet lay of Boiler feed water heater & deator	Corrosion inhibitors & on site guidance.

## COOLING WATER TREATMENT

Chemetreat's custom – made cooling water programs mitigate the impact of corrosion, scaling and fouling in Closed and Open loop systems. Our technical experts provide solutions, trouble shoot, evaluate chemical programs and align their goals to reduce water foot print, optimize heat transfer and achieve overall saving in operating cost.



### CHEMETREAT™ RANGE OF PRODUCTS FOR COOLING WATER TREATMENT INCLUDE

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.





## RO MEMBRANE TREATMENT

Accelerated Usage of Untreated feed water to reverse osmosis systems can result in scaling and fouling on membrane surface. Consequently, this reduces through put, impacts membrane performance and calls for unwarranted down time and membrane cleaning.



### CHEMETREAT™ RANGE OF PRODUCTS FOR RO MEMBRANE INCLUDE

Treatments	Description
Antiscalent	Provide optimum control of feed water and for varying water characteristics NSF Listed food grade based RO Antiscalent.
Non oxidizing biocide	For controlling biological fouling.
RO Membrane Cleansers	Alkaline and acid cleaning formulations which ensures reliable output, improved recovery, protects membrane from damages and accelerated reverse osmosis.

## OTHER PRODUCTS FOR RO/ DM PLANTS

- Dosing pump and tank
- On line pH correction system
- RO/ UF membrane
- Cartridge filter & Filter housing
- Water sample testing kits for Hardness, Chloride, Alkalinity, Silica, Iron, FRC, microbiological tests like TBC, SRB etc.
- Ion exchange Resin for DM and softening plant
- Sand Filter, DMF, Activated carbon filter
- Chemicals- HCL, Caustic, Hypo, SMBS, Sulphuric Acid

## FUEL & FIRE SIDE ADDITIVES - CHEMEFUEL

Sooting (Fouling), clinkering and other combustion deposits are common fireside occurrences in boilers and thermic fluid heaters. These deposits along with un-burnt carbon result in the formation of incombustible solids on the heat transfer surfaces, resulting in poor heat transfer, reduced overall boiler efficiency, and increase in fuel consumption.

CHEMEFUEL provides series of fuel and fireside additives for liquid and solid fuel fired boilers where the impact of clinker formation can result in frequent cleaning, increased down time and increase in specific fuel consumption.

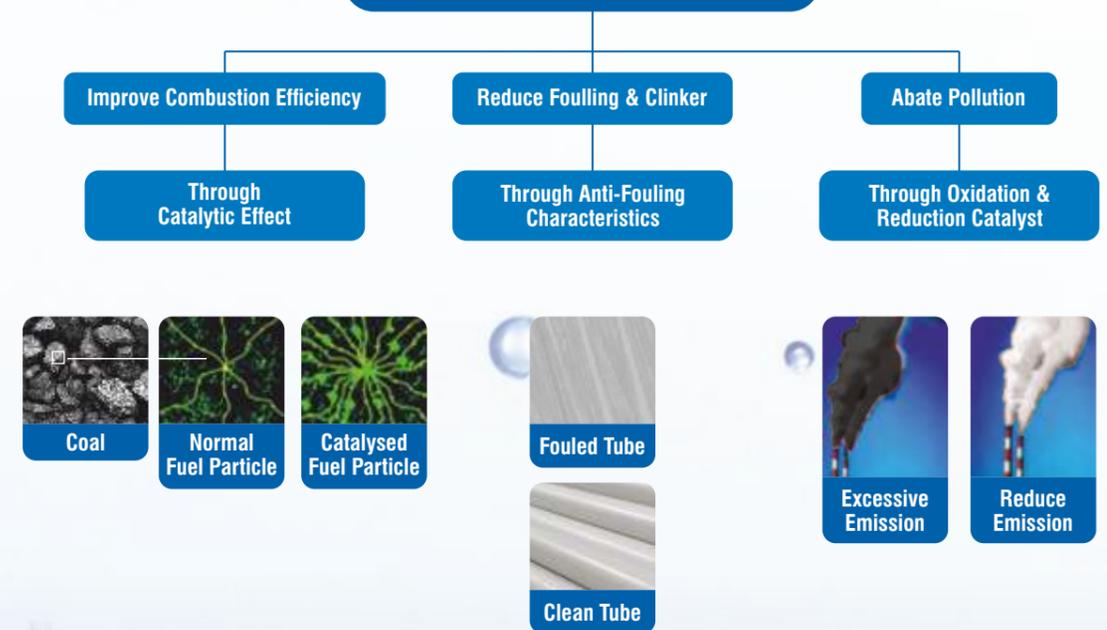
CHEMEFUEL range of liquid fuel additives are designed to condition fuel for better performance and operation of the systems. CHEMEFUEL series of fireside additives are designed for solid fuel fired boilers and heaters including biomass.

CHEMEFUEL series of fuel and fireside additives are balanced formulation of combustion catalysts, dispersants etc.

Fire side treatment for:

- FO & LDO fired boilers
- Imported Coal and Lignite fired boilers
- Agrowaste based ( briquette, bagasse, rice husk, wood etc) boilers

### TRIPLE EFFECT OF CHEMEFUEL



## PRE CLEANING, PASSIVATION & DESCALING TREATMENT

Pre treatment of cooling water system is necessary to maximize the service life of heat exchange equipment

**Precleaning** - to remove the accumulation of foreign matter (grease, oil, corrosion products, mill scale and dust)

**Passivation or Pre Filming** - to promote rapid formation of an inhibiting film.

Our expert will design Pre treatment and passivation program based on Economics, discharge limitations, and time requirement.

Online & Offline Cleaning Programme based on	Additional Range:
<ul style="list-style-type: none"> <li>• Inhibited Acid base Descalents / Silicate Scale Removal</li> <li>• Alkaline Base Descalent</li> <li>• Acid Inhibitors-for 1) Different metals 2) Different acids</li> </ul>	<ul style="list-style-type: none"> <li>• Corrosion Inhibitor for DG set radiator</li> <li>• Corrosion Inhibitor for specific application.</li> </ul>

## WASTE WATER TREATMENTS

Water, a valuable natural resource, plays vital role in day to day life and industrial water treatment operations. Our water and waste water chemical solutions are specifically aimed to meet the challenges of influent and effluent water in industrial, municipal and institutional segments.

Chemesys manufactures an extensive range of polyelectrolytes (coagulants and flocculants) both liquid and dry powder. We offer low, medium and high molecular weight cationic, anionic and non- ionic polyelectrolytes.

### CHEMEFLOC RANGE OF PRODUCTS FOR WASTE WATER TREATMENT INCLUDE

Treatments	Description
Polyelectrolyte	Anionic, nonionic and cationic base poly electrolyte for water treatment.
Defoamer	Silicon oil base defoamer.
Decolorising Agent	Its decolorizing agent. Its cationic organic coagulant that forms insoluble precipitates with colored substances present in waste water.

## VALUE ADDED SERVICES

- Designing of effective Treatment program based on Water quality and operation data.
- Experienced Field team for implementing water treatment program, Optimize dosage for best results.
- Trouble shooting at site.
- Standard testing methods for water samples. Microbiological test with kits / Corrosion Rate Monitoring by Corrosion Coupon.
- Descaling of heat exchanger, condenser, boiler and reactor Jackets.
- Cleaning of RO membrane.
- Optimizing combustion of Boiler with Chemefuel and Flue Gas analyser kit.

## OUR GROUP COMPANIES TOTAL PORTFOLIO

- EPOXY AND PU FLOORING
- DI-ELECTRIC FLOORING | ANTI STATIC FLOORING
- CONSTRUCTION CHEMICALS/ WATER PROOFING CHEMICALS
- SPECIALITY ANTI CORROSIVE COATING/ PAINTING
- PASSIVE FIRE PROTECTION ( FIRE BARRIER AND FIRE RETARDING CABLE COATING)
- INTERNAL/EXTERNAL COATING OF PIPELINE, TANKS, PUMPS, TUBE SHEET
- MRO PRODUCTS
- COLD WELDING COMPOUND, STEEL PUTTIES
- SILICON SEALANT
- ELECTRICAL INSULATION

