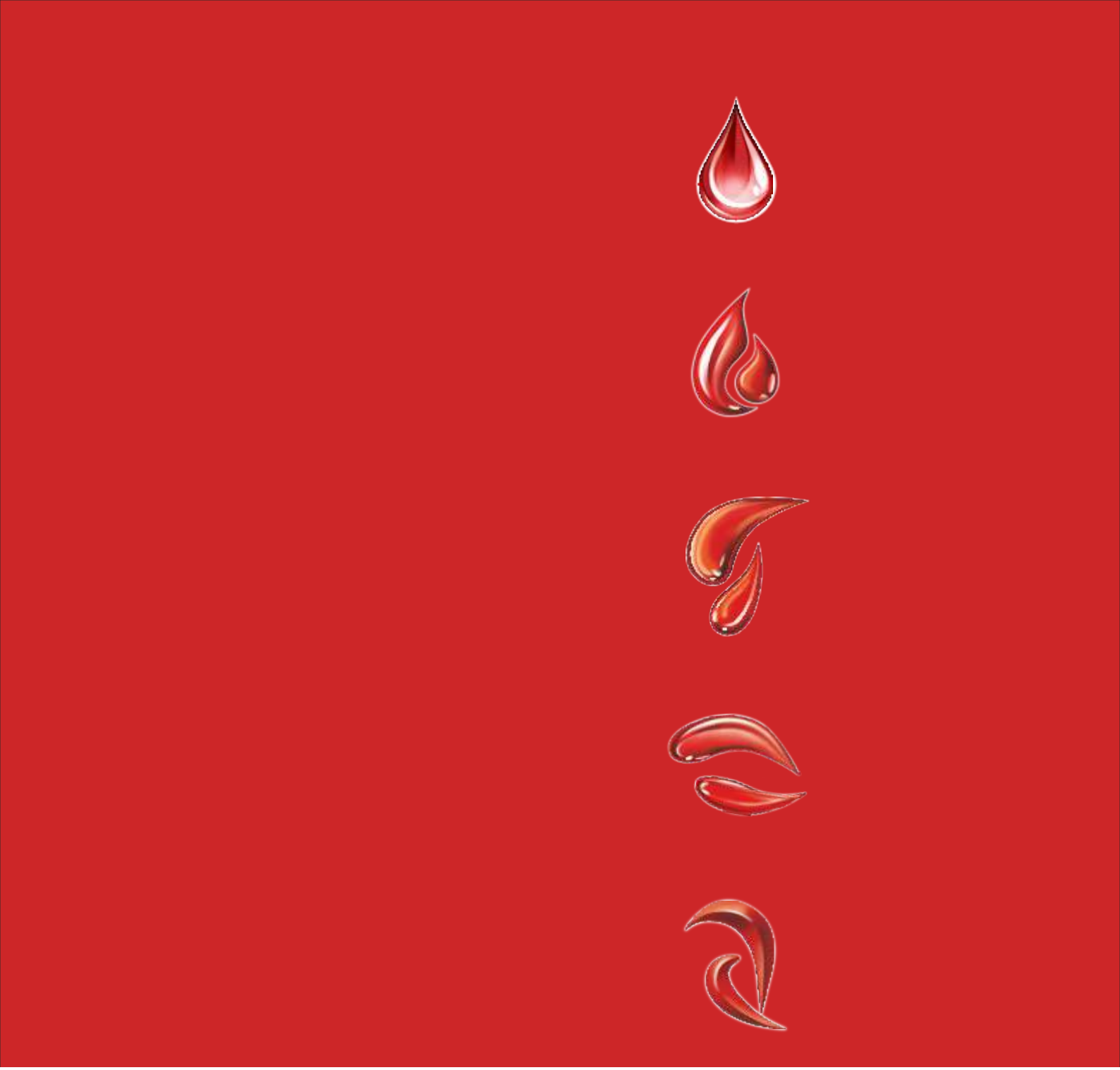


RAKIRO

Create...Innovate...Deliver!

Rakiro Biotech Systems Private Limited
www.rakiro.net

About Us

Rakiro provides solutions for testing, measurement and water treatment for the process Industry. In past few years we have made a mark in the field of testing and have a strong presence in India as well as other parts of the world with a wide network of dealers & distributors. Also with a vast experience in the field of water treatment our chemical division specializes in chemical formulations required in the smooth running of various processes and helps improve the efficiency of production. We are truly invested in understanding our clients' needs and working with them to deliver high quality solutions, with continuously reviewing and improving our way of working. All our products are evaluated and approved by major institutes and authorities in India.

Our Infrastructure

Our pragmatic workforce & state of the art manufacturing facility produces a wide range of Instruments & Field Test Kits for both microbiological & chemical analytical parameters. Our ERP system based operations help us to make majority of the product range available of the shelf. This helps all our clients in enhancing the pace of onsite Testing or Treatment & thus efficiently monitor a running process. We understand the importance of systems and processes for smooth functioning and thus we follow system driven operations. We have aquired ISO 9001:2015 certification for our Quality Management System (QMS).



Automized Production

Instrument Assembly





Quality Control

R&D Laboratory



Our Team

For us leadership is not about glorious crowning acts. It's about keeping your team focused on a goal and motivated to do their best to achieve it.



UDAAQ
COMPLETE WATER SOLUTIONS

We have in our repertoire a basket full of Water Treatment Chemical Formulations, manufactured to international quality standards for various applications. Our high performance chemical treatment products are used successfully in many of the industrial process environments where they help to reduce cost by improving the productivity & optimizing performance. Our range of formulations include water treatment chemicals for the following systems.

REVERSE OSMOSIS CHEMICALS



Reverse Osmosis (R.O.) is commonly used for desalination (demineralization) and purification of water as it proves economical in the long run. The performance of a R.O. system gets hampered due to impurities that build up on the membrane surface during operations. Suspended solids, microorganisms and mineral scale can foul membrane elements. These deposits can cause loss in output and/or rejection levels and reduce total system performance. Our formulations based on modern polymers help to greatly reduce deposits, impurities, and scale in your system's membranes. Our NSF Certified (NSF/ANSI 60) range of formulated Antiscalants, Antifoulants and Cleaners are specially designed chemicals that keep these contaminants from attaching to the membrane surface. They also prove economical in the long run.

R O ANTI-SCALANT (CERTIFIED TO NSF/ANSI 60)

Scaling is caused in membranes because the level of hardness salts in the water becomes highly concentrated as it passes through the RO unit. In smaller units scale formation can be prevented by base exchange softening the make-up water but for larger systems that is very expensive. We have developed a range of easy to handle, cost effective RO Antiscalant which increase the solubility of the hardness salts so they remain in solution rather than forming scale on the membrane. Our cost effective advance Polymer based RO antiscalants will inhibit a wide range of foulants including: calcium carbonate, calcium sulphate, barium sulphate, strontium sulphate, calcium fluoride, silica and iron.

Sr	Product Code	Product Description	Packing
1	WTRD305	For Moderate TDS & Low Silica Feed Water (NSF Certified)	5/20/35/50 Kgs
2	WTRD300	For Moderate TDS & Moderate Silica Feed Water (NSF Certified)	5/20/35/50 Kgs
3	WTRD310	For High TDS & Moderate Silica Feed Water (NSF Certified)	5/20/35/50 Kgs
4	WTRD320	For High TDS & High Silica Feed Water (NSF Certified)	5/20/35/50 Kgs

R O CLEANER (CERTIFIED TO NSF/ANSI 60)

Regular chemical cleaning of RO membranes will help to increase its performance and will extend its useful life. The main concern with cleaning is that it should be done before the situation gets too bad as then the membrane may become fouled and will have to replaced. Cleaning should be undertaken regularly after a predetermined interval.Our NSF Certified Cleaner are highly effective cleaning chemical which very effectively removes deposits including carbonate, silicate, sulphate, phosphate of Calcium, Barium, Strontium, scales, deposits including colloids and organic biofoulants

Sr	Product Code	Product Description	Packing
1	WTROC1600	Acidic Cleaner (NSF Certified)	5/20/35/50 Kgs
2	WTROC1800	Alkaline Cleaner (NSF Certified)	5/20/35/50 Kgs

R O BIOFOULING CLEANER (CERTIFIED TO NSF/ANSI 60)

Our micro biocide is highly effective against all type of biofilm including sessile & planktonic organisms. It helps to cleans organic debris and biofilm & keeps the membrane surface free from biofouling. Its Broad spectrum efficacy makes it compatible with tap water, brackish water, sea water & other chlorine resistance membranes.

Sr	Product Code	Product Description	Packing
1	WTROB700	Biofouling Cleaner (Isothiozoline Based)	5/20/35/50 Kgs
2	WTROB800	Biofouling Cleaner (Nano Silver & Hydrogen Peroxide Based) (NSF Certified)	5/20/35/50 Kgs
3	WTROB900	Biofouling Cleaner (DBNPA Based) (NSF Certified)	5/20/35/50 Kgs

PH BOOSTER (CERTIFIED TO NSF/ANSI 60)

The control of water pH and alkalinity levels is very important in order to reduce corrosion. Depending on the natural feed water alkalinity, it is often necessary to add an alkalinity builder in order to establish the correct water chemistry by raising the water pH which helps to protect the system from acid corrosion.

Sr	Product Code	Product Description	Packing
1	WTP200	To Increase pH in RO Water (NSF Certified)	5/20/35/50 Kgs

Note: 5KG packing supplied in multiples of 4 Cans (20KG) Only

BOILER CHEMICALS

UDAAQ
COMPLETE WATER SOLUTIONS



Primary function of a boiler is to transfer heat into water until it becomes hot or turns to steam. Boiler feed water often contains impurities, which impair boiler operation and efficiency. Therefore to improve feed water quality and steam purity Pretreatment and chemical treatment of the water is very important. To ensure boiler systems are correctly maintained and operate at optimum efficiency it is essential to carefully select the formulation. Our comprehensive range of high performance formulations have been scientifically formulated to deliver significant operational benefits and performance improvements. Our extensive range of formulated boiler water treatment chemicals help to minimize scale formation, metallic corrosion and sludge deposition. This helps to increase efficiency, reduce fuel consumption, decrease operating and maintenance costs and extend equipment lifetime.

BOILER MULTIPURPOSE – SCALE, CORROSION INHIBITOR & SLUDGE CONDITIONER (CERTIFIED TO NSF)

Our multipurpose boiler water treatment chemicals have been designed to offer multi-component boiler protection in a single chemical product. It is a special product designed to prevent scale and corrosion on the waterside surfaces of medium-and-low pressure boilers using unsoftened feed water. It is a combination of modern water treatment chemicals comprising of chemical softening agents, sludge conditioners and oxygen scavenger which protect the feed lines and the boiler form scale and corrosion. This brings convenience of using a single chemical treatment product, with multifunctional protection capabilities to deliver all-round boiler protection.

Sr	Product Code	Product Description	Packing
1	WT1010	For Fire Tube Boiler	35KG/50KG
2	WT1020	For Water Tube Boiler	35KG/50KG

BOILER WATER - OXYGEN SCAVENGER / CORROSION INHIBITOR (CERTIFIED TO NSF)

Metallic corrosion due to oxygen is a major concern in the operation and maintenance of industrial boiler systems and steam plants. Oxygen derived from boiler water will corrode metallic components leading to increased maintenance costs and reduced boiler efficiency. Our specially formulated oxygen scavenger helps in rapid and complete removal of dissolved oxygen form feed water and boiler water. It is an instant oxygen scavenger & normal reaction time with oxygen is only 15 to 20 second at ambient temperatures.

Sr	Product Code	Product Description	Packing
1	WT3010	Sulphite Based (NSF Certified)	35KG/50KG
2	WT3030	Hydrazine Based	35KG/50KG

BOILER WATER - SLUDGE CONDITIONER (CERTIFIED TO NSF)

Boiler water sludge is caused by salts and traces of suspended matter present in operational steam boilers and feed waters. Our boiler sludge conditioner is designed to combat the accumulation and build-up of boiler sludge. It is a polymer ans phosphonate based formulation designed to produce light, finely divided particles which are non-adherent and are easily removed with blow down.

Sr	Product Code	Product Description	Packing
1	WT2110	To Prevent Sludge Deposites	35KG/50KG

BOILER WATER - ANTISCALANT

Our Boiler Water Antiscalant increases the solubility of the hardness salts so they remain in solution rather than forming scale on the Boiler Surface. Our cost effective advance Polymer based antiscalants will inhibit a wide range of foulants and can withstand high temperature, pressure and does not impart taste or odour to steam.

Sr	Product Code	Product Description	Packing
1	WT2200	To Prevents Scale Deposits	35KG/50KG

BOILER WATER - PH BOOSTER (CERTIFIED TO NSF)

The control of water pH and alkalinity levels is very important in low- and medium-pressure boilers to reduce corrosion. Our unique formulation is an all-in-one precise blend of alkalinity builder, softening agent and synthetic organic sludge conditioner. It helps to protect your boiler system from acidic corrosion as it is designed specifically for low hardness softened water and demineralized Water.

Sr	Product Code	Product Description	Packing
1	WT1462	To Increase PH in Boiler System	35KG/50KG

BOILER CONDENSATE WATER - NEUTRALIZING AMINE (CERTIFIED TO NSF)

Condensate systems have problems caused by iron and copper corrosion, neutralizing amines are used to neutralize the acid (H+) generated in the condensate. They control corrosion in the condensate system by maintaining a protective coating of iron oxide over the metal surfaces, while supplying sufficient material of an alkaline nature, to neutralize the carbonic acid that is formed in the condensate.

Sr	Product Code	Product Description	Packing
1	WTR101	For Condensate System pH Control	35KG/50KG

BOILER WATER - SOFTENING AGENT (CERTIFIED TO NSF)

Our softening agents treat incoming boiler water hardness by sequestering both calcium and magnesium from the feed water preventing its premature deposition & scale formation. We recommend its use with sludge conditioners and dispersants, antifoam and oxygen scavengers to provide more effective treatment.

Sr	Product Code	Product Description	Packing
1	WT4010	Phosphate Based Softner	35KG/50KG

COOLING TOWER CHEMICALS

UDAAQ
COMPLETE WATER SOLUTIONS

Industrial cooling systems are required to function smoothly. Therefore it is essential that correct cooling water conditions are established and maintained at all times. To ensure cooling systems are correctly maintained and operate at optimum efficiency it is essential to carefully select cooling water treatment chemicals. Our comprehensive range of high performance cooling water treatment chemicals have been scientifically formulated to deliver significant operational benefits and performance improvements to cooling systems that use water as a primary coolant. Our wide range of formulations help to minimize scale, corrosion, fouling and biofouling to ensure trouble free operation of the system.



COOLING MULTIPURPOSE: ANTISCALANT, CORROSION INHIBITOR AND DISPERSANT (CERTIFIED TO NSF)

Our multipurpose organic corrosion and scale inhibitor is designed for use in industrial cooling systems. It is composed of ingredients that are biodegradable and contains no zinc or heavy metal components. It functions by forming a microscopic inhibitive film on the metal surface that acts as a barrier to prevent or minimize corrosion. It also contains effective polymeric antifoulants and sequestrants to help remove metallic oxide, silt and dead microbiological material to maintain a cleaner and more efficiently operating system.

Sr	Product Code	Product Description	Packing
1	WT2000	For Low TDS System	35KG/50KG
2	WT2870	For High TDS System	35KG/50KG

COOLING TOWER - ANTISCALANT (CERTIFIED TO NSF)

The unwanted accumulation of scale and detrimental impact of metallic corrosion can be significant issues that affect the operation and maintenance of open and closed cooling water systems. To ensure that such open and closed cooling systems are well maintained and operate at optimum efficiency, it is essential that the correct water conditions are maintained at all times. This can be achieved using carefully selected scale and corrosion inhibitors designed specifically for such cooling systems.Our technologically advanced cooling water scale and corrosion inhibitors have been scientifically formulated to protect cooling systems from the effects of both scale build-

Sr	Product Code	Product Description	Packing
1	WTD100	For Low TDS System	35KG/50KG
2	WTD200	For High TDS System	35KG/50KG

COOLING TOWER - CORROSION INHIBITOR (CERTIFIED TO NSF)

The impact of metallic corrosion can be a significant issue that affects the operation and maintenance of cooling water systems. To ensure that such cooling systems are well maintained and operate at optimum efficiency it is essential that the correct water conditions are maintained at all times. This can be achieved using carefully selected corrosion inhibitors designed specifically for cooling systems. Our advanced technology cooling water corrosion inhibitors have been scientifically formulated to protect cooling systems from the effects of metallic corrosion.

Sr	Product Code	Product Description	Packing
1	WT2890	Zinc Based Corrosion Inhibitor	35KG/50KG

COOLING TOWER - DISPERSANT (CERTIFIED TO NSF)

The accumulation of microbiological slimes, biofilm and general bio-fouling in cooling water systems reduces system efficiency, increases operating and maintenance costs. If ignored leads to under deposit and pitting type of corrosion. Our synthetic organic Biodispersant and Bio Dispersent is effective in removing dead algal and slime mass from cooling system. It has a capacity to penetrate inside the thick algae mats on the cooling tower deck or fills and help the biocide to penetrate the biomass. It also has a deterrent effect and it cleans the system on line. Generally it is dosed prior to biocide or along with biocide to enhance its efficacy:

Sr	Product Code	Product Description	Packing
1	WTA100	Bio Dispersant with Antifoulant	35KG/50KG
2	WTA201	Bio Dispersant	35KG/50KG

COOLING TOWER BIOCIDES (CERTIFIED TO NSF)

The control of microbiological activity is an important, often safety critical activity in many commercial, manufacturing and industrial process applications. Our Non Oxidizing biocides are effective in controlling bacterial slime and fungal growth in industrial recirculating cooling water systems, air washer systems and evaporate condensers. We have a range of both oxidizing and nonoxidizing biocides, which have a broad spectrum efficacy and are effective over a wide range of pH.

Sr	Product Code	Product Description (Non Oxidizing Biocide)	Packing
1	WTB101	BKC - Quaternary Ammonium Based	35KG/50KG
2	WTB201	SDMDC - Carbamate Based	35KG/50KG
3	WTB900	CMIT - Isothiozoline Based	35KG/50KG
4	WTB1100	DDAC - Quaternary Ammonium Based	35KG/50KG
5	WTB1200	Bronopol Based Bactericide	35KG/50KG
6	WTB1900	Triazine Based Algaecide	35KG/50KG
7	WTB2100	THPS Based Biocide	35KG/50KG

Sr	Product Code	Product Description (Oxidizing Biocide)	Packing
1	WTB660	Chlorine Based	35KG/50KG
2	WTB700	Nano Silver & Hydrogen Peroxide Based	35KG/50KG
3	WTB1300	DBNPA Based Formulation	35KG/50KG

UDAAQ
COMPLETE WATER SOLUTIONS

CHILLER PLANT CORROSION INHIBITOR (CERTIFIED TO NSF)

The detrimental impact of metallic corrosion can be a significant issue that affects the operation and maintenance of closed cooling water systems. To ensure that such closed cooling systems are well maintained and operate at optimum efficiency it is essential that the correct water conditions are maintained at all times. This can be achieved using carefully selected corrosion inhibitors designed specifically for cooling systems. Our advanced technology cooling water corrosion inhibitors have been scientifically formulated to protect cooling systems from the effects of metallic corrosion.

Sr	Product Code	Product Description	Packing
1	WTCR100	For Closed System (Chilling Plants)	35KG/50KG

COOLING TOWER / CHILLER - CLEANER CHEMICAL (ON LINE) (CERTIFIED TO NSF)

Our cleaning system has been specially developed to effectively remove deposit, sludge / foulants from the system. It is a blend of specific chelating agents designed for removal of Iron, Calcium and Magnesium based deposits from cooling water systems where it is not practical to remove the tower packing. It is found to be most effective in cleaning, where deposition or oil contamination is suspected of reducing heat transfer or restricting flow available. Deposits are softened and solubilized as our cleaner penetrates the deposits and enhances the action of cooling water dispersants to slough off remaining deposits which are later removed during a blow down.

Sr	Product Code	Product Description	Packing
1	WTIC305	Cooling Tower Cleaner Descaling Chemical	35KG/50KG
2	WTIC315	Cooling Tower Cleaner Dispersant Chemical (To be used after WTIC305)	35KG/50KG
3	WT1153A	Chiller Plant Cleaner Descaling Chemical	35KG/50KG
4	WT1153B	Chiller Plant Cleaner Dispersant Chemical (To be used after WT1153A)	35KG/50KG

SUGAR PROCESS CHEMICALS



A cane sugar mill converts sugar cane to sugar crystals using a chain of continuous processes like crushing, evaporating, filtering & Distillation. To maximize sugar recovery from each of these processes different sugar process chemicals are used for individual production processes. Our comprehensive ranges of high performance chemicals have been scientifically formulated to deliver significant operational benefits and economize the production process. Use of these chemicals helps the sugar process unit for a trouble free run and achieving maximum recovery of sugar from cane.

SUGAR PROCESS - MILL SANITATION COMPOUND TO CONTROL BACTERIAL GROWTH

Mill Sanitation Chemicals are broad spectrum biocides that are effective in controlling the growth of algae, bacteria and fungi. They penetrate cell wall, lysis occurs, and metabolites leak out causing death of cell, thereby stunting their growth. Our formulation is a synergistic blend of Biocides which sanitises the mill section & restricts the inversion of sugar in the sugar juice.

Sr	Product Code	Product Description	Packing
1	WT8100	Quaternary Ammonium Based	35KG/50KG
2	WT8200	Carbamate Based	35KG/50KG

SUGAR PROCESS - EVAPORATOR ANTI-SCALANT

Evaporator systems in sugar industries tend to accumulate salts. The first two Evaporator bodies have generally a deposition of carbonate and phosphate, while the third and fourth have sulphates and silicates. These deposits are results of the sulphitation and lime processes done in clarification of the juice. Our formulation is a blend of low molecular weight polymers which helps in protecting the quadruple evaporators from scaling & deposits in multiple ways.

Sr	Product Code	Product Description	Packing
1	WT8300	To Inhibit Carbonate, Sulphate And Silica	35KG/50KG

SUGAR PROCESS - VISCOSITY REDUCER

'C' massecuite consists mainly of highly viscous non sugar material and a low sugar. The non sugar in 'C' massecuite increases the viscosity and hampers the pan boiling. Sometime because of high viscosity uniform boiling is not possible and thus may in turn char the sugar. To avoid this phenomenon the use of viscosity reducer is solicited in the process. Our formulation is a synergistic blend of special chemicals that reduces the viscosity of 'C' massecuite at the time of pan boiling.

Sr	Product Code	Product Description	Packing
1	WT8400	To Reduce Viscosity Of 'C' Massecuite	35KG/50KG

SUGAR PROCESS - BAGASSE POL REDUCER

To achieve maximum sugar extraction from crushed cane, sugar losses are to be maintained at a minimum in sugar mills. One of the major losses faced by a sugar factory is the sugar lost in bagasse during processing. Our unique ingredient and the synergistic functions of the formulation help in extraction of additional sucrose from bagasse on line. Its chemical composite helps to leach maximum sugar from bagasse by reduction of pol percentage in bagasse, reduction in moisture of bagasse and prevent non sugar coming out of bagasse.

Sr	Product Code	Product Description	Packing
1	WT8500	To Extract More Sugar From Bagasse	35KG/50KG

SPECIALITY CHEMICALS

UDAAQ
COMPLETE WATER SOLUTIONS

We have a wide range of speciality chemicals that are designed on basis of system applications. These chemicals are certified by NSF - USA for use in Food processing Industry.

AHU (AIR HANDLING UNIT) CLEANER (CERTIFIED TO NSF)

AHU if not cleaned regularly & properly lose their cooling efficiency & consume more electricity which drastically reduces its efficiency. To prevent this problem it is important to clean the AHU regularly. An effective cleaner would keep the AHU free of muck and dust running efficiently, thereby keeping the electricity consumption low. Our inhibited alkaline cleaner is useful in cleaning of Air Handling Units (AHU), Aluminum piston and Radiators. Also it has exceptionally long tank life and does not produce any objectionable odour, so it can be used for heavy duty cleaning at a economical price.

Sr	Product Code	Product Description	Packing
1	WTAHUCLN	For Aluminium Cleaning	35KG/50KG

RESIN CLEANER (CERTIFIED TO NSF)

Ion exchange resins can become polluted or contaminated with suspended solids, slime, bacteria, and numerous organic or microbiological matters over a time period. Fouling of the resin by iron and organic build up cannot be removed by normal regeneration procedures and can cause gradual performance losses. Our resin cleaner is especially designed to remove bound iron from iron fouled resins and prevent accumulation of fouling conditions to extend the resin life significantly. It will ensure optimum exchange capacity & also keep the softener components clean when used on a regular basis.

Sr	Product Code	Product Description	Packing
1	WTRESCLN	For Ion Exchange Resin	35KG/50KG

DEFOAMER (ANTI-FOAMER) (CERTIFIED TO NSF)

We provide a complete range of defoamers for different industries such as Adhesive, Agriculture, and Bitumen. Construction, Dyes & Pigments, Emulsion polymerization, Oilfield & petroleum, Paper & Pulp Sugar, Soaps & Detergents, Waste water Treatment. Our Silicon based defoamer is found to be powerful and highly effective due its unique properties & can be used in practically all industrial applications where unwanted foam creates problems in manufacturing.

Sr	Product Code	Product Description	Packing
1	WTAF10	Silicon Based Defoaming Agent Low	35KG/50KG
2	WTAF20	Silicon Based Defoaming Agent Medium	35KG/50KG
3	WTAF30	Silicon Based Defoaming Agent High	35KG/50KG

SILVER NANO HYDROGEN PERAOXIDE (CERTIFIED TO NSF60)

Our Silver Nano Hydrogen Peraoxide is effective Micro biocide formulation, an active combination of Nano Silver with Hydrogen Peroxide. It is effective in controlling bacterial growth, algae & fungal growth in all types of Waters and Surfaces. This combination is lethal to microbes, wherein Hydrogen peroxide disrupts microbial cell membrane, while Nano Silver penetrates in the cell, inhibiting enzymes needed for microbial metabolism. The Nano silver also disrupts DNA strands. This is a Food Grade Formulation Certified by NSF-USA under the NSF60 Standard & can be used drinking water application or food processing applications. Our Nano Silver Hydrogen Peroxide formulation have wide usages like eg. Industrial Water treatment, Surface Disinfection, Aerial Disinfection, Swimming Pool Disinfection, Agriculture Products Disinfection and any process required disinfection.

Sr	Product Code	Product Description	Packing
1	WTSH010	Nano Silver Hydrogen Peroxide 10 %	5KG/20KG
2	WTSH020	Nano Silver Hydrogen Peroxide 20 %	5KG/20KG
3	WTSH025	Nano Silver Hydrogen Peroxide 25 %	5KG/20KG
4	WTSH035	Nano Silver Hydrogen Peroxide 35 %	5KG/20KG
5	WTSH050	Nano Silver Hydrogen Peroxide 50 %	5KG/20KG

We are consultants to the water industry, wherein we help industries in specialized testing of various water parameters, again both in chemistry as well as microbiology. Also our customized chemical treatment products are used successfully in many of the industrial process environments where they help to reduce cost by improving the productivity & optimizing performance. Our Research and development is an ongoing process for innovating new treatment techniques aimed towards complete satisfaction to the client. Our Industrial Chemicals are formulated with discretion and caution so as to make their properties as environment friendly as possible. Our dedicated workforce is imbibed with the same passion in humane approach and our highly advanced infra structural set-up helps us in our mission to deliver high quality products.

Kindly visit www.rakiro.net/downloads to download individual product literatures and material safety datasheet

AGNISOL
Fire-Side Chemicals

FIRESIDE ADDITIVES






The primary aim of combustion is to obtain maximum amount of energy from each unit of fuel. But impurities in fuels and operational problems are limitations to achieve maximum output from burned fuel. The impurities in fuel can lead to formation of slag in furnace, clinkers on the fuel bed and the presence of sulphur can lead to the cold end corrosion. It is possible to improve the combustion of fuel and reduce un-burnt carbon in the ash. Our fireside additive plays an important role in complete combustion of fuel along with a control on corrosion deposits, slagging clinker formation, reduction in air borne pollution emission as well as inhibition of fouling.

SOLID FUEL ADDITIVE

Our Multipurpose Solid Fuel Additive is a free flowing powder treatment designed primarily for treating coal, wood, bagasse, biomass and other solid fuels. It acts as combustion catalyst and thereby loss due to unburnt fuel gets minimized resulting in improved combustion efficiency. It has an anti–fouling agent that helps to keep heat transfer surfaces clean and thus improves the steam generation for same heat transfer area. It softens the hard clinker and reduces the tendency of hard clinker formation, thus helps in reducing the maintenance & provide ease in cleaning and increase the boiler availability for long term operation. It promotes smoke free combustion at lower excess air levels, resulting in improved fuel economy.

Sr	Product Code	Product Description	Standard Packing
1	AGN6100	Coal Fuel Additive	25 Kg / 50 kg
2	AGN6200	Bagasse Fuel Additive	25 Kg / 50 kg
3	AGN6300	Wood Fuel Additive	25 Kg / 50 kg
4	AGN6400	Biomass Fuel Additive	25 Kg / 50 kg

ADVANTAGES OF USING FIRESIDE ADDITIVES

Combustion Process without Additives		Combustion Process with Additives
Incomplete Combustion of fuel	→	Complete Combustion of Fuel
Slag & Clinker Formation	→	Reduced Slag & Clinker Formation
Corrosion of surface & Cold Corrosion	→	Minimizes Corrosion & Cold Corrosion
Acid Smut Formation	→	Reduces Acid Smut Formation
Unburned Carbon in Ash	→	Decrease in Unburned Carbon in Ash
Increase Fuel Consumption	→	Reduces Fuel Consumption
Decrease in Furnace Efficiency	→	Increase in Furnace Efficiency
Increases Particulate Matter from Stack	→	Decreases Particulate Matter from Stack

Our Clients


Aban Offshore Limited
adani
asianpaints
ADM
Ambuja Cements
BASF
Balrampur Chini Mills Ltd.
Camlin
Crescent
INTRON
Clariant
Castrol
CENTURY
Cipla
Caring for life
CUMI
DOMS
DUCOL
ESSAR
STEEL
EMERSON
Climate Technologies
FUCHS
THE LEELA
GNFC
GeM
Godrej
ADITYA BIRLA
TAJ
HITACHI
Inspire the Next
HYATT
Akshaya Patra
HIKAL
VEOLIA
APAR
IndianOil
INDIGO
INTAS
ipca
IPOL
JSW
Steel
INDO RAMA
Jupiter Hospital
LODHA
BUILDING A BETTER LIFE
LUPIN
Mercedes-Benz
Mahindra
NALCO
NPCIL
ONGC
PATANJALI
HARDCASTLE PETROFER
PEPSI
Piramal
Pfizer
praj
RAMADA
Radisson
Reliance
REXAM
Ruchi
GROUP
SAINT GOBAIN
SANDOZ
Think Generics
sesa sterlite
SOUJANYA
SUN
PHARMA
TATA
TATA TRUSTS
THERMAX
TEVA
Pidilite
telabs
UltraTech
CEMENT
UPL
TATA
VALUE HOMES
Vasu
CHEMICALS
vedanta
Vaddal
MABAG
wipro
YKK
Quality Inspires
Zydus

Our Network



RAKIRO

RAKIRO BIOTECH SYSTEMS PVT LTD

R466 MIDC Rabale Navi Mumbai 400701 INDIA
Email: sales@rakiro.net Tel No: +91-22-47804040

ISO 9001:2015 Certified Company

www.rakiro.net