



# **WATER TREATMENT PRODUCTS**

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*Setting Limits By Probing The Impossible*

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# WATER TREATMENT PRODUCTS

## BOILER TREATMENTS

### EXACT BWT 566

A specially formulated product to protect small boilers. The chemicals formulated in this product work synergistically to interfere with crystal development and add a protective coating to metal surfaces. Provides complete protection against scale build-up and keeps sludge conditioned for easy elimination through blow down. Very effective on boilers that are fired on a discontinuous basis. (PIF 00566) For high hardness applications, try Exact BWT 566HH. (PIF 00234)

### EXACT BWT 1000

Extremely efficient in the prevention of scale and corrosion in steam and hot water boilers. Phosphate-based. For hard water boiler feed. BWT 1000 is a highly concentrated formula that should be diluted before adding to the boiler feed. (PIF 01000)

### EXACT ULTREAT

A balanced boiler water treatment that guards against scale, rust, corrosion and pitting in boilers and in the condensate system. The product is a unique blend of organic sequestrants, dispersants and complexing polymers combined with sludge conditioners, neutralizers and return line treatment. Exact Ultreat, in many applications, is the only treatment needed. Ultreat should be added undiluted, directly from the drum to the boiler feed. Non-phosphate. (PIF 01801)

### EXACT ULTREAT 200

Complete, fully balanced, concentrated boiler feed water treatment. Will guard against rust, pitting, scaling and corrosion. Ultreat 200 is a unique blend of organic sequestrants, dispersants and complexing polymers combined with sludge conditioners. Add product undiluted to the boiler feed. Non-phosphate. (PIF 01811)

### EXACT X-IT

Like X-IT Plus, this is a great multi-functional, phosphonate based water treatment that cleans up existing problems as well as protects against future damage. Great for boilers where a return line treatment is not needed. (PIF 00459)

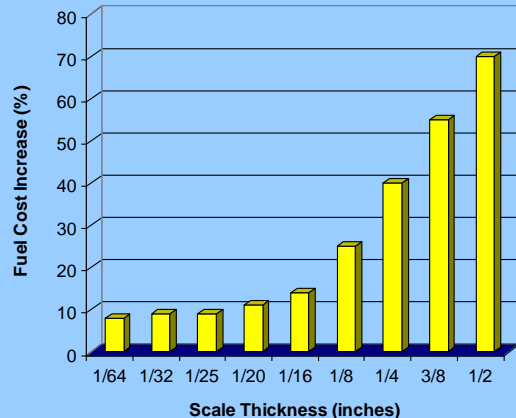
### EXACT X-IT PLUS

A multifunctional, phosphonate based water treatment which cleans up existing problems and gets rid of iron scale. A combination of powerful chelating agents, corrosion inhibitors and dispersants, the product protects steam boilers against rusting, pitting, corrosion and scale build up on the tubes, in the legs, steam lines and condensate return lines. Exact X-It Plus should be added undiluted to the boiler feed. (PIF 00458)

## Why Use Boiler Treatments?

Energy loss due to scale formation represents just one of the reasons that proper water treatment is essential in boiler systems. Even thin layers of scale build up serve as an insulator that inhibits heat transfer and results in the overheating of boiler tubes. This loss of energy efficiency translates into significant increases in fuel cost. The graph below shows the percentage of fuel cost increase as a result of boiler scale build up.

Fuel Cost Increases due to Boiler Scale



\*Source: U.S. Bureau of Standards.

Kor-Chem Product	Typical Product Characteristics					Applications				
	RTU or Conc.	Color	pH	Dosage Ratio (oz / gal)	Weight per Gallon	Method of Treatment	Corrosion & Scale Inhibitor	Dispersant System	Return Line Treatment	Hard Feed Water
<b>Boiler Treatments</b>										
BWT 566	RTU	Brown	13.5	16 / 1000	9.9	Chelant	●	●	●	○
BWT 566HH	RTU	Brown	13.5	16 / 1000	9.9	Chelant	●	●	●	●
BWT 1000	Conc.	Brown	13.5	10 / 1000	9.9	Phosphate	●	●	○	⊖
ULTREAT	RTU	Red	13.0	32 / 1000	9.0	Chelant	●	●	●	⊖
ULTREAT 200	RTU	Colorless	13.0	32 / 1000	9.0	Chelant	●	●	○	⊖
X-IT PLUS	RTU	Brown	13.0	16 / 1000	9.2	HEDP	●	●	●	●
X-IT	RTU	Brown	13.0	16 / 1000	9.2	HEDP	●	●	○	●

● excellent    ⊖ good    ○ not recommended    ⊖ not present

# WATER TREATMENT PRODUCTS

## OXYGEN SCAVENGERS

### EXACT OXYFITE

This internal boiler treatment acts to control oxygen, prevent scale formation and corrosion. The product is a concentrated solution of effective dispersants and oxygen scavengers designed to inhibit the attack of oxygen on boiler components. OxyFite will accommodate a wide range of boiler sizes and conditions. (PIF 00138)

### EXACT OPTI-CIDE

A granulated combination of components that specifically seek out and bind up oxygen and thus prevent rusting and corrosion. (PIF 00116)

### EXACT OXYGONE

A granular, catalyzed sulfite product formulated with powerful dispersing agents. Easily dissolves and binds free oxygen to prevent system corrosion. (PIF 00355)



## RETURN LINE TREATMENTS

### EXACT RUSTROL

Neutralizing agent that controls steam line and condensate line corrosion and rusting. Excellent protection for return lines that are less 800 feet long. Fully compatible with other boiler additives. (PIF 00103)

### EXACT RLT

A concentrate of a unique blend of proprietary corrosion inhibitors and amines which assure neutralization over a wide range of pressures and steam line lengths. Very effective in medium and long length steam lines. (PIF 00105)

### EXACT RLT MULTI

Compatible with a wide range of internal treatments, this product is designed very complicated, long steam and return systems. The product can be used in substantially all boiler operations. (PIF 00583)

## BOILER SYSTEM CLEANERS

### EXACT BFWT

Super concentrated and easily dissolved. This granulated powder contains dispersants, corrosion inhibitors, sludge conditioners, alkaline builders and oxygen scavengers. (PIF 00136)

### EXACT DSC

Highly active dispersants combined with anti-foam and sludge conditioning agents. Controls iron and calcium depositing during system upsets. (PIF 00478)

### SLUDGE DISPERSANT

A combination of polyacrylates and natural organics for optimum sludge conditioning. Ready to use solution precipitates out solids in boilers that are easily removed through blow down. (PIF 00560)

### EXACT BOILER CLEAN OUT

Liquid treatment for new or repaired boilers to remove grease, oil or rust from the water side before use. (PIF 00558)

### EXACT DRY ACID DESCALER

The safe way to descale. An inhibited dry acid effective in dissolving carbonate, phosphate and iron scales. Contains built-in indicator which changes color with progress. (PIF 00913)

### EXACT AB I

This highly concentrated caustic booster is good on a wide range of boiler sizes and conditions. Internal treatment controls free oxygen, prevents scale formation and inhibits corrosion. Extremely effective acid neutralizer. (PIF 00093)

### EXACT AB II

An economical booster for smaller operations. Prevents scaling, pitting, and corrosion. Product works effectively as an acid neutralizer also. (PIF 00101)

### EXACT AB PLUS

A highly effective alkalinity booster with dispersants and sludge conditioners. Especially well suited for use in boilers with high proportions of magnesium, salts or silica. (PIF 00559)

## Did You Know?

Lack of a proper water treatment program for your boiler system will cost you more than just increases in fuel consumption and cost. Below is a list of additional costs of scale and corrosion in boilers.

- 1) Increased operating costs.
- 2) Cost of descaling procedure.
- 3) Replacement & repair cost of parts due to failure.
- 4) Cost of boiler depreciation due to corrosion, pitting, cleaning and other effects of neglect.
- 5) Loss of time, inconvenience, delays and unwarranted downtime.

# WATER TREATMENT PRODUCTS

## COOLING TOWER TREATMENTS

### EXACT BLUE BLOX

A very convenient, concentrated water treatment for controlling scale, rust, corrosion and build-ups in small cooling towers. The product is contained in a plastic dispenser which controls the rate of solution so that metering pumps, timers and daily hand feeds are not necessary. (PIF 00365)

### EXACT CWT 100

A concentrated, multi-functional polymeric combination designed to disperse scale and fight corrosion. This low pH formula easily disperses, deflocculates, inhibits crystal growth and reacts to form a protective film on metal surfaces. A great option for hard water and multivalent metal systems, and as well as an effective defense against white rust. (PIF 00880)

### EXACT CWT 135

An economical version of CWT 100. This multi-functional polymeric combination is formulated to disperse scale and fight corrosion. Low pH treatment is great option for hard water and multivalent metal systems, and as well as an effective defense against white rust. (PIF 00778)

### EXACT CWT 200

A combination, multi-functional polymeric solution formulated to be an effective anti-scalant and corrosion fighting treatment for cooling towers. Good for systems containing mild steel, copper alloys and aluminum. Very effective at deflocculating, conditioning and dispersing system contaminates. An excellent, well rounded treatment for just about any cooling system. (PIF 01700)

### EXACT CWT 500

Exact CWT 500 is a synergistic combination of corrosion inhibitors, acrylate copolymers, alkalinity builders and chelating agents which work to protect ferrous and non-ferrous metal surfaces. Exact CWT 500 may be used in open re-circulating water systems in cooling towers and air wash systems. Exact CWT 500 is also stable in halogenated cooling systems! (PIF 00655)



### EXACT MO-RE-GUARD II

A synergistic combination of corrosion inhibitors which work to protect ferrous metals used in open recirculating cooling towers and air wash systems. A premium product that contains environmentally acceptable components which inhibit the formation of scale deposits and corrosion. (PIF 00654)

### EXACT TOWERTREAT 2817

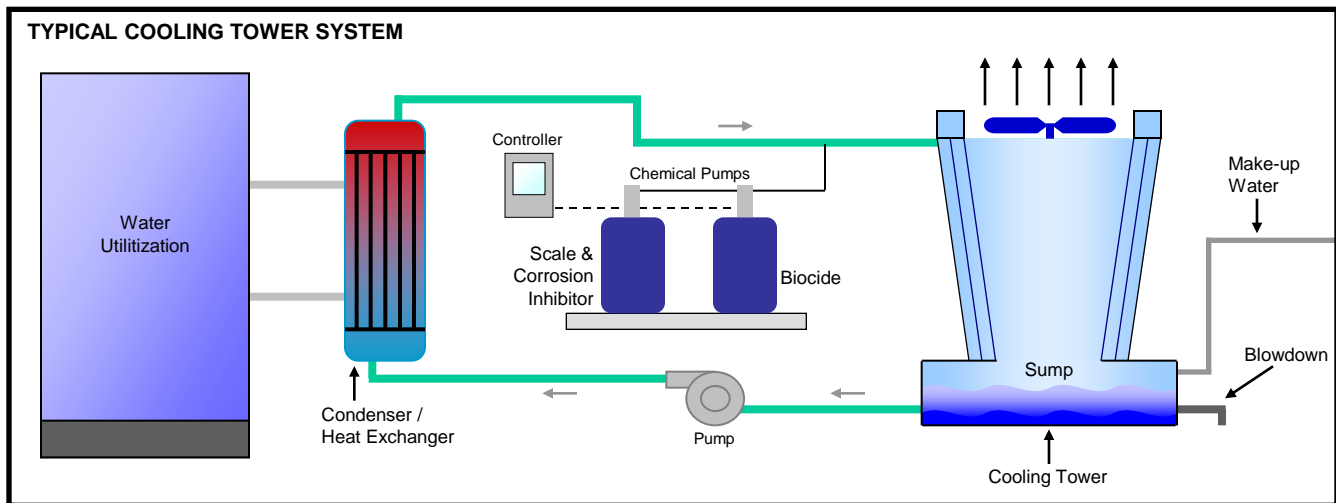
Exact TowerTreat 2817 is a synergistic combination of very active phosphonates, terpolymers, and corrosion inhibitors which work to inhibit crystal growth and add protection in cooling towers, condensers and waterlines. The product is designed to work effectively in soft make up feed water with hardness levels up to 60ppm. Contains a molybdate tracer. (PIF 02817)

### EXACT TOWERTREAT 2895

Exact TowerTreat 2895 is a synergistic combination of very active phosphonates, terpolymers, and corrosion inhibitors which work to inhibit crystal growth and add protection in cooling towers, condensers and waterlines. This product is designed to offer outstanding performance in systems where the feed water exhibits high hardness levels up to 120ppm. Contains a molybdate tracer. (PIF 02895)

Kor-Chem Product	Typical Product Characteristics						Applications			
	Form	Color	pH	Dosage Ratio (oz / gal)	Weight per Gallon	Method of Treatment	Corrosion & Scale Inhibitor	Protective Passivation Coating	Dispersing Agent	Sodium Molybdate Tracer
<b>Cooling Tower Treatments</b>										
BLUE BLOX	Solid	Blue	1.5	1 bl / 1000	N / A	Phosphonate	●	●	⊙	⊙
CWT 100	Liquid	Straw	1.5	32 / 1000	8.6	Phosphonate	●	●	⊙	⊙
CWT 135	Liquid	Straw	1.5	50 / 1000	8.5	Phosphonate	●	●	⊙	⊙
CWT 200	Liquid	Straw	12.5	32 / 1000	8.7	Phosphonate	●	●	●	⊙
CWT 500	Liquid	Straw	13.0	10 / 1000	9.2	Phosphonate	●	●	●	⊙
MO-RE-GUARD II	Liquid	Straw	13.0	10 / 1000	9.2	MO / Phosph.	●	●	●	●
TOWERTREAT 2817	Liquid	Brown	12.5	32 / 1000	9.0	Phosphonate	●	●	●	●
TOWERTREAT 2895	Liquid	Orange	10.5	24 / 1000	8.8	Phosphonate	●	●	●	●
● excellent    ⊙ good    ○ not recommended    ⊙ not present										

# WATER TREATMENT PRODUCTS



## Cooling Tower Problems

With the high price of energy in today's world, it more important than ever to keep cooling systems free of insulating deposits. With the proper water treatment program, these costly deposits can be avoided. The four primary sources of cooling tower deposits are:

- 1) Scale – calcium, silica & silicate build ups
- 2) Corrosion – pitting & deterioration of parts
- 3) Biological Contamination – algae, fungi & bacteria
- 4) Sludge Fouling – dirt, mud, sand, silt, clay & other particulates entering the system with the make-up water

## BIOCIDES / CLEANERS

### EXACT TREAT 158

Multipurpose polymer quat based treatment that removes sludge build-up and protects recirculating water. Concentrated formula for economical use. (PIF 00158)

### EXACT AGL 847

Specially formulated as an algacide and bactericide for water towers. Carbamate based treatment that is extremely effective and economical. EPA registered. (PIF 00847)

### SODIUM HYPOCHLORITE 12.5%

The strongest EPA registered bleach in the industry. Cleans, disinfects and removes microorganisms. Restores surface appearances by removing stains and odors normally left behind. Great for disinfecting potable water systems and wells, as well as cleaning up fouled systems. (PIF 00079)

### GLUTERALDEHYDE 15%

A concentrated microbiocide that is effective against bacteria, algae and fungi. Extremely efficient in preventing system fouling. EPA registered. (PIF 02805)

## SYSTEM CLEANERS

### EXACT RE-DOX – INHIBITED ACID DESCALER

A very economical, inhibited acid based cleaner which removes mineral scale, rust and dirt from metal surfaces, ceramic and concrete. (PIF 00164)

### EXACT 828 – ONLINE SYSTEM DESCALER

An on-line descaler which works to get rid of carbonate and iron scale without interrupting the system. Non phosphate. Non acid. (PIF 00828)

### EXACT SPECIAL SPERS – DISPERSANT

Disperses and removes coagulated oil, grease and dead in cooling towers. Excellent corrosion inhibitor. (PIF 00227)



## CLOSED LOOP TREATMENTS

### EXACT COR-TEC-IN

This product is a multifunctional dispersant and corrosion inhibitor for hot and cold closed loop water systems. Cor-Tec-In is a nitrite/borate based product and contains corrosion inhibitors that protect ferrous and nonferrous metals. Formulated with a built in activity indicator for easy dosing. (PIF 00380)

# WASTE WATER TREATMENT PRODUCTS

## LIFT STATION CLEANERS

### **BREAK OUT – FLOATING SEWER DEGREASER**

New and improved. Solvent based, floating degreaser concentrate helps in cleaning and freeing up lift stations, digesters and primary ponds. Cuts oil, grease and deposits while controlling foam also. Non corrosive. (PIF 00764)

### **PURPLE POWER II – GREASE & SCUM DIGESTER**

Even better. New generation of sewer degreasers. Concentrated aqueous formula aids in the dispersal of grease build-ups. Fast acting. Biodegradable. (PIF 01439)

### **SILT & SAND REMOVER**

Assists in removing deposits that restrict or plug sewer drains or lines. A must for road maintenance crews in the spring and fall. (PIF 00811)



## ENZYME DIGESTERS

### **LIVE GUARD**

Drain cleaner with unique cleaning power. Acts to digest complex inanimate organic matter by using microorganisms cultivated from vegetable matter. Will destroy obnoxious malodors and stains. (PIF 01351)

### **HYZYMES**

A highly concentrated drain cleaner which uses non-pathogenic, non-toxic bacterial complexes. Produces free flowing and odor free drains, drain lines, grease traps and more. (PIF 01422)

## SPECIALTY PRODUCTS

### **FOAM CONTROL – LIQUID DEFOAMER**

An effective and economical concentrate. Silicon based dispersion. Good for a wide range of applications. (PIF 00701)

### **CHELATED COPPER SULFATE**

Easy to use liquid that controls water quality and malodors in lagoons and ponds. Not for public waters. (PIF 00361)

Also available in crystalline form for easy handling and slow release. (PIF 00363)

### **POTTY PUNCH – PORTABLE TOILET TREATMENT**

Highly concentrated treatment for portable toilets. No formaldehyde. Blue and more blue. Special packaging available. (PIF 02710)

### **VANISH O – LIQUID ODOR ENCAPSULANT**

Powerful blend of surface active agents that work synergistically to encapsulate and thus neutralize noxious odors. Great in spray applications. (PIF 01690)

### **ODOR MASK – CONCENTRATED DEODORIZER**

Great for sewage treatment plants. An industrial strength scent. (PIF 00815)

### **SULFUR DEODORANT**

Strong and safe chemical oxidizer which destroys malodors by chemically reacting and neutralizing the source. (PIF 01108)



## Customer Resources

Your Kor-Chem Customer Service and Support Team is here to serve you. To place an order or request further assistance, please contact us with the information provided below.

### International Headquarters

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