

# PARAFOS<sup>®</sup>

**NSE** Certified by NSF

## Water Treatment



**Scale  
Corrosion  
Staining**



## PARAFOS<sup>®</sup>

-  **Treats**
-  **Controls**
-  **Protects**

 **A clean water product from Keytech** 

# PARAFOS® WATER TREATMENT

## PARAFOS® WATER TREATMENT

PARAFOS® is a multipurpose water treatment product, formulated from a unique blend of NSF TESTED and CERTIFIED ingredients. When added to water, PARAFOS® forms compounds and complexes with scale-forming minerals and metals holding them in a clear, odorless, tasteless and safe solution. PARAFOS® effectively and economically alleviates the problems and costs related to scale, stains and corrosion.



## PARAFOS® ECONOMICAL TO USE

PARAFOS® is a highly concentrated water treatment product designed to treat a maximum amount of water. Only a small amount of PARAFOS® is required to effectively treat and protect your system. With PARAFOS®, both capital and ongoing costs of water treatment are typically much lower than alternate methods.

PARAFOS® saves you money!

## PARAFOS® REDUCES AND ELIMINATES SCALE DEPOSITS

Hard water scale deposits are typically found through all areas of water usage. Water heaters, piping and distribution systems, valves, nozzles, taps, heat exchangers, etc. are all affected by hard water mineral scale. Reduced heat transfer, clogged pipes, early equipment replacement and downtime are some of the results of scale deposits. PARAFOS® “ties up” or sequesters minerals such as calcium, magnesium and silica, reducing and preventing their deposition, even at elevated temperatures. Further, PARAFOS® has the ability to gradually dissolve existing scale and iron deposits. By preventing and eliminating scale deposits PARAFOS® improves your energy efficiency!

PARAFOS® saves you money!

## PARAFOS® VS. WATER SOFTENERS

In many applications PARAFOS® can replace the need for, and the use of, a Water Softener system. With PARAFOS®, capital and installation costs are only a small fraction when compared to the cost of softeners. Operation and maintenance costs are also greatly reduced. Water use for backwash and regeneration is eliminated. Salt costs and labor intensive handling are eliminated. PARAFOS® provides excellent protection from scale build-up and also provides additional protection from corrosion - something water softeners cannot do.

Ask your Keytech representative for a PARAFOS® versus Water Softener cost comparison for your system.

PARAFOS® saves you money!



Water Softener System

## PARAFOS® REDUCES CORROSION



Corrosion of water distribution systems is a serious problem affecting metal piping and valves, water heaters and hot water recirculation systems. Dissolved gases such as oxygen and carbon dioxide can cause severe corrosion to metal piping. Chlorinated water supplies can also result in accelerated corrosion. As a result of this corrosion pin holes and leaks can occur. Expensive maintenance, repairs and replacements are a result. Leaching of lead and copper due to corrosion is also a major concern for drinking water. PARAFOS® can help!

PARAFOS® alleviates the problems associated with corrosion by complexing to form a monomolecular film on the waterside of metal plumbing surfaces. PARAFOS® effectively reduces corrosion by forming this protective barrier. Also, PARAFOS® can help you achieve the USEPA Safe Drinking Water Act (SDWA) guidelines for lead and copper by reducing corrosion in your water system.

PARAFOS® saves you money!

## PARAFOS® REDUCES STAINING

PARAFOS® combines with the metals of iron and manganese, forming compounds that are not readily broken down by oxygen. By slowing and preventing oxidization, PARAFOS® reduces the severe problems of red or black staining on fixtures, sinks and toilets as well as clogging of pipes, valves and water distribution systems. PARAFOS® protects your system by reducing and alleviating staining and clogging.

PARAFOS® saves you money!

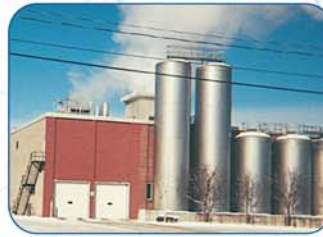


# PARAFOS® General APPLICATIONS



**Agricultural**

- Poultry Operations
- Layer, Broilers, Turkeys
- Hatcheries, Egg Washing, Processing
- Poultry nipple, cup & bell drinkers
- Water heaters, piping & valves
- Misters, foggers, spray nozzles & cooling pads



**Food Processing**

- Poultry Processing Plants
- Meat Processing Plants
- Dairy, Cheese & Egg Washing/Processing
- Bottling & Ice Mfg. Plants
- Piping, Valves, Temperature Controllers
- Water Heaters & Heat Exchangers
- Improved Filtration & Chlorination



**Industrial**

- Ready Mixed Concrete Plants
- Water Jet Cutting Machines
- Plastics, Heat Treating & Automotive Mfg.
- Direct Contact Water Heaters
- Heat Exchangers
- Piping, Valves & Temperature Controllers
- Once-through Cooling / Water Cooled Equipment



**Commercial / Institutional**

- Grocery Stores
- Hotels/Motels, Office Buildings
- Hospitals, Laundries, Schools
- Apartment Buildings & Condominiums
- Piping, Valves, Temperature Controllers
- Water Heaters & Heat Exchangers
- Showerheads, Sinks, Toilets, Floors & Drains
- Ice Machines, Proofers, Flush Tanks & Valves

# PARAFOS® gamma High Temperature APPLICATIONS



**Direct Contact Water Heater**

PARAFOS® gamma is specially formulated for use in high temperature water treatment applications. PARAFOS® gamma treats and controls scale deposits in potable water systems where temperatures exceed 160°F. PARAFOS® gamma also provides corrosion control by forming a monomolecular protective film on waterside surfaces. Direct Contact Water Heaters and steam-to-water Heat Exchangers are ideal applications for PARAFOS® gamma.

PARAFOS® gamma ensures that scale buildup in the packing area of Direct Fire Water Heaters is reduced or eliminated. Proper water flow through the rings ensures that efficient heat exchange is maintained. Expensive and hazardous cleaning is reduced or eliminated. Ring replacement is avoided and maintenance and downtime is greatly reduced. PARAFOS® gamma helps keep the waterside of steam-to-water Heat Exchangers scale free, ensuring continued efficiency while reducing maintenance and downtime.



**Direct Contact Water Heater**



**Heat Exchanger**

## PARAFOS® SAFE TO USE ✓ REGISTERED ✓ TESTED ✓ CERTIFIED ✓

PARAFOS® is TESTED and CERTIFIED by NSF International, a respected international certification organization dedicated to being the leading global supplier of public health & safety based risk management solutions.

PARAFOS® is NSF CERTIFIED for use, as directed, in potable water systems. NSF listings are available online at: [www.nsf.org/certified/pwschemicals](http://www.nsf.org/certified/pwschemicals)



PARAFOS® is REGISTERED with NSF International's Nonfood Compounds and Proprietary Substances Registration Program for products used in processing & pre-processing stages of food production. PARAFOS® is listed online in the NSF White Book™ at: [www.nsfwhitebook.org](http://www.nsfwhitebook.org)

PARAFOS® is suitable for use in food production facilities where potable water may come in contact with food. A CFIA letter of non-objective is available.

PARAFOS® may be suitable for use in Organic operations. Please consult your Keytech representative for further information on your organic application.

PARAFOS® products are manufactured by Keytech Water Management, an accredited ISO 9001 registered organization



# PARAFOS®

NSF Certified by NSF

## Water Treatment

 **Accurate**



## PARAFOS® Metering System

PARAFOS® is available in a convenient concentrated liquid formulation and is supplied ready-to-use. The PARAFOS® Feed System draws directly from the shipping container and injects PARAFOS® into your water system accurately in proportion to water flow.

The PARAFOS® Metering System's built-in versatility allows it to be utilized for all the line sizes and materials, flow rates, pressures and feed rates. The PARAFOS® Metering System has proven itself over many years to be reliable, accurate and virtually maintenance-free.

PARAFOS® is not only simple and convenient to feed, it is also easy to test. PARAFOS® levels may be quickly confirmed through the use of a PARAFOS® test kit. PARAFOS® feed rates remain constant, virtually eliminating the need for adjustment.

The PARAFOS® Metering System can also be used to feed a variety of chemical treatments, such as chlorine. Ask your Keytech representative for more information.

 **Reliable**



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