

Accu-Tab[®] System

TABLET CHLORINATION



Simple, Low-Cost System for Improved Operational Performance



As Effective as Gas, More Consistent than Bleach and Easier to Maintain than Both.

PPG'S ACCU-TAB® TABLET CHLORINATION SYSTEM

As regulatory requirements and safety issues provide increasing incentive for water treatment plants to reconsider their chlorination systems, the *Accu-Tab* System tablet chlorine solution provides safety and low-maintenance benefits as well as small capital investment, improving the performance of your plant.

Since its introduction to the water and wastewater treatment segments in 1993, the *Accu-Tab* System by PPG has become a leader in tablet chlorination. It is used as a cost-effective solution to chlorinate water plants as large as 14 million gallons per day (MGD) to smaller communities facing the unique challenges of well water disinfection. Throughout the United States and Canada, the *Accu-Tab* System is used in drinking water applications for primary treatment or remote booster stations.

As an effective and reliable alternative to gas and bleach, the *Accu-Tab* System combines specially engineered chlorinators with controlled-release 68% three-inch calcium hypochlorite tablets in a complete system that delivers consistent and controllable chlorine residuals.





SAFER. The *Accu-Tab* System minimizes the safety concerns typically associated with the use of chlorine gas and bleach in water treatment.

The *Accu-Tab* Chlorination System:

- Removes the risk of leaks common with the use of chlorine gas cylinders.
- Eliminates the need for an expensive safety system. Just rubber gloves and safety goggles are needed to handle calcium hypochlorite tablets.
- Reduces the need for elaborate risk management programs associated with chlorine gas cylinders.

SIMPLE. It doesn't get much easier than the *Accu-Tab* Chlorination System:

- Integrates easily with existing systems and PPG-trained specialists are available to provide expert installation and technical support.
- Requires only one person to load tablets and maintain the system. The unique three-inch calcium hypochlorite tablets are shipped in convenient and easy-to-store 55-lb. pails.
- Has few moving parts, no metering pumps, and no small openings that can clog making for a trouble-free, low maintenance solution to water treatment.

EFFECTIVE. Providing consistent chlorine delivery for improved performance.

The *Accu-Tab* Chlorination System:

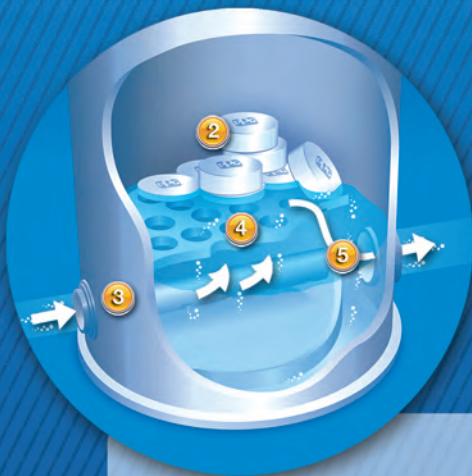
- Erodes controlled release tablets at a predictable rate.
- Reduces disagreeable tastes and odors while killing harmful bacteria.



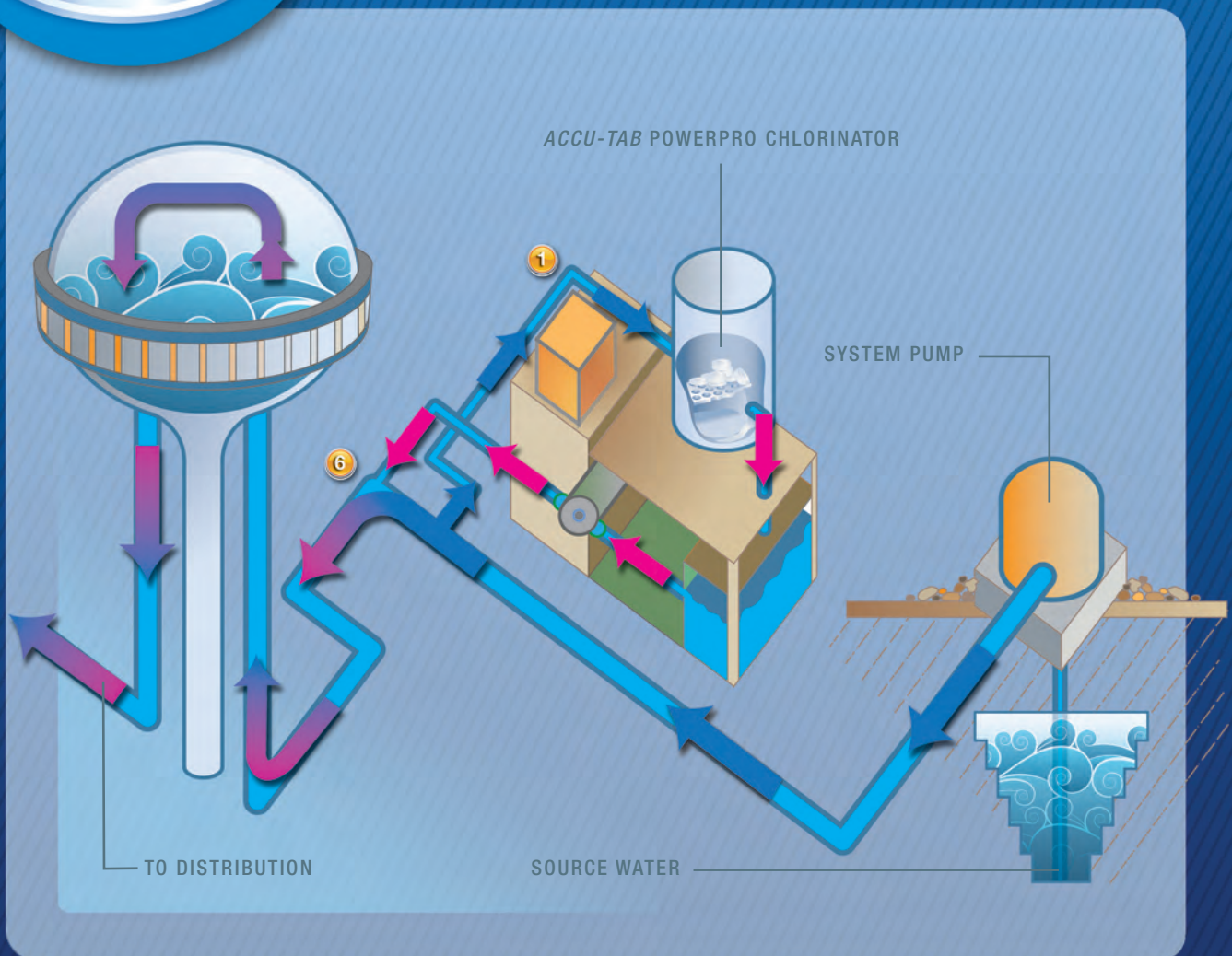
How the Accu-Tab System Works

The *Accu-Tab* System is easy to install and can be integrated into any existing system with low capital investment. Once in place, the system runs simply and efficiently with little to no maintenance.

Before water is moved into distribution, a side stream flows through the chlorinator and contacts the *Accu-Tab* tablets inside. The tablets erode at a predictable rate based on the flow rate of the side stream, allowing for a consistent delivery of chlorine. Once the water is chlorinated, it is injected back into the main water line. The chlorinator automatically stops when the water flow is shut off, ensuring the tablets remain dry when the unit is not in operation. A control valve at the inlet allows precise chlorine residual control. Both manual and automatic control systems are available for your plant's specific needs.



- 1 Side stream flows to the chlorinator.
- 2 *Accu-Tab* three-inch tablets sit on top of a sieve plate inside the chlorinator.
- 3 Intake water flow to the chlorinator is adjusted to control chlorine delivery.
- 4 Untreated water rises through holes in the sieve plate contacting with bottom of tablets. The balance of the tablets remain dry.
- 5 Water is returned to the system with the appropriate amount of chlorine.
- 6 Chlorinated water stream meets main water flow and continues to distribution.



The Accu-Tab Chlorinator and Tablet Advantage



Clockwise from top:
Model #3530, #3150,
#3012, Accu-Tab tablets,
and Model #3075.

Accu-Tab chlorinators are made of rigid PVC with a wide range of sizes available to meet any chlorination need or requirement. With few moving parts, Accu-Tab chlorinators offer low maintenance and eliminate any concerns of spills or leaks.

Accu-Tab tablets offer a more neutral pH level and are less corrosive than other chlorination methods. Only three inches in diameter, the tablets are easily dropped into the chlorinator and allow for easy storage with packaging in 55-lb. pails.



The Power of Accu-Tab Over Bleach and Gas

FACTORS	ACCU-TAB® SYSTEM	GAS	BLEACH
Safety	Easy to handle, no spills	Major gas leak concerns	Spill and leak concerns
Charging chemical	Easy to add tablets, only one person needed	Two trained persons needed, breathing protection required	Hard to maneuver, heavy drums or lots of small carboys
Material compatibility	More neutral pH, less corrosive	Low pH, very corrosive	High pH, corrosive
Convenience	55-lb. pail of tablets is easy to handle	Hard to maneuver cylinders, special handling training needed	Bleach drums are awkward to handle
Maintains chlorine strength	Small change over a year	Consistently 100% chlorine	Significant loss in a week
Chlorine delivery control	Consistent strength makes for easy, reliable control	Troublesome regulators needed, harder to automate	Ever-changing strength makes for control difficulty
Storage convenience	55-lb. pails stacked three high, same space as 150-lb. cylinder, no separate room	Separate room with special access needed, fans, scrubbers	Drums or bulk tanks require space and possible containment pad
Auxiliary equipment	No moving parts in chlorinator itself	Eductors, regulators have small orifices prone to plugging	Troublesome metering pumps required

The *Accu-Tab* System offers a safe and state-of-the-art approach to municipal water treatment for improved operational performance in your water treatment plant. The PPG-pioneered calcium hypochlorite technology of the *Accu-Tab* System is used worldwide and is certified by NSF, USDA, EPA, FDA and AWWA. In addition to municipal water, *Accu-Tab* Systems are used in applications for poultry plants, red meat processing, fruit and vegetable processing, beverage plants, irrigation and other specialized uses.



Visit www.accu-tab.com
for more information.



***Accu-Tab* Solution for Municipal Water**

SAFER.

- Safe alternative to gas and bleach
- No leaks

SIMPLE.

- Low maintenance
- Requires smaller footprint than similar bleach systems

EFFECTIVE.

- As effective as gas, more consistent than bleach
- Low capital investment

Contact your *Accu-Tab* specialist to learn how the system can work for you.

Behind Every Accu-Tab® System is the Power of PPG Industries— Innovation, Science, Engineering, Experience.

Innovation backed by science. This has been the hallmark of PPG Industries since the company's founding in 1883. Today, PPG is a global powerhouse with sales and manufacturing facilities in more than 50 countries.

You'll recognize many of PPG's products, from Olympic® paints and stains to Transitions® photochromic lenses. PPG makes coatings that protect your computer and car as well as energy-saving glass for your home's windows. We are also one of the world's largest manufacturers of chlorine, with more than half a century of experience as a producer of chlorine and chlorine products.

Accu-Tab Certification and Approvals

- NSF Standard 60 and 61 listed for drinking water
- USDA approved uses: D2, G4, G5, G7 and Q4 for SI tablets
- AWWA Standard B-300
- FDA Approval 21CFR178.1010
- EPA Registration #748-295
- Kosher approved



PPG Industries, Inc.
440 College Park Dr.
Monroeville, PA 15146
800-245-2974
+1 724-325-5962
Fax: +1 724-325-5047
www.accu-tab.com

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