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

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Improve Overall Performance and Simplify Operations

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

Why choose the Accu-Tab system?

- Demonstrated reliability and cost savings
- Flexibility to suit many applications, regardless of size and chlorine demand
- Integrates easily with existing systems
- Many models available
- Quality-controlled tablets are cyanuric acid-free
- NSF/ANSI Standard 50 listed

Contact an Accu-Tab system representative to learn how the system can improve your operations.

Accu-Tab System TABLET CHLORINATION

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From community swimming pools and spas to large aquatic facilities, pool operators face tough challenges in the fight for pool water clarity, safety and water balance. The everyday tests of nature—in addition to the organic and inorganic materials introduced into the water by swimmers—pose serious issues as pool operators strive to reach quality standards and maintain a healthy environment for patrons.

The Accu-Tab® chlorination system from PPG Industries stands up to the challenges of commercial pool environments, as well as rigorous industry and government health and performance requirements, by consistently and accurately delivering the chlorine needed to kill harmful bacteria, control algae and destroy organic contaminants. The easy-to-use calcium hypochlorite tablet-based system is built on smart engineering, proprietary tablet technology and quality construction.

Through use of the Accu-Tab chlorination system, which delivers exceptional performance at a great long-term value, pool operators worldwide are streamlining their maintenance duties and improving their pool operations.

Accu-Tab® System Technology

With every drop of sparkling, crystal clean water delivered from the Accu-Tab system comes peace of mind for pool operators and managers.

These Accu-Tab chlorinators are five of many models ideal for indoor or outdoor pool and spa applications.
The Accu-Tab System Advantage

Accu-Tab system technology combines specially-engineered chlorinators with quality controlled three-inch calcium hypochlorite tablets to form a complete, NSF-certified system that kills bacteria, controls algae and destroys organic contaminants. Notable advantages:

- System is rugged, compact and manageable (no containment tanks).
- Performs reliably with or without automatic controllers.
- Feeders are simple with few moving parts and no small openings that can clog.
- Metering technology helps prevent scale formations—often reducing maintenance needs to an annual cleaning.
- Transparent lid allows operators to verify tablet levels without interrupting operations.
- Tablets have a long shelf life depending on storage conditions.
- Chemical is concentrated allowing for smaller, stackable containers.

See more Accu-Tab system advantages on page 10!
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Calcium hypochlorite (cal-hypo) is a versatile and effective chemical for delivering chlorine into water. Because it is more pH-friendly than gas chlorine, liquid bleach or trichlor tablets, it is easier to achieve water balance. Additionally, the tablets are cyanuric acid-free allowing operators to control the level of stabilizer in their pools. Finally, the Accu-Tab system delivers chlorine consistently and can be adjusted easily to accommodate changes in chlorine demand.

Dr. Stanley R. Pickens
PPG Senior Research Chemist,
Accu-Tab system

Quality Tablets + Quality Chlorinator = Quality Performance

The Accu-Tab system is able to run consistently and predictably because Accu-Tab tablets undergo a multi-step manufacturing and quality control process so they will not soften and clog the system—a common problem with knock-off three-inch tablets and briquettes.

PPG makes tablets only from its own calcium hypochlorite granular lot materials at a quality-controlled chlorine content and specified particle distribution. Qualified granular material is blended with a scale inhibitor for Blue SI tablets and a colorant under a proprietary formulation and then pressed to meet erosion requirements resulting in a solid, quality product. The blue-colored Accu-Tab tablets are easily identifiable to minimize the risk of mixing with other chemicals and are excellent for use in indoor pools because they are cyanuric acid-free.

Accu-Tab Blue and Blue SI (scale inhibitor) tablets are independently tested in Accu-Tab systems by NSF International to meet NSF/ANSI Standard 50 certification and are the only tablets sanctioned for use in Accu-Tab chlorinators.

This 150,000-gallon lazy river is serviced by the Accu-Tab® PowerBase® 3500 chlorination system.
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[accu-tab.com/aquatics](http://accu-tab.com/aquatics)
Choosing the Right Accu-Tab System

Whether a spa, municipal pool, waterpark, spray pad or decorative fountain, there is an Accu-Tab system model to meet most water environments and chlorine demands. Models are designed to suit indoor or outdoor pool or spa installations. The systems can be configured to accommodate suction side, gravity flow and automated applications in an existing operation or a new facility. Once in place, the Accu-Tab system runs simply and efficiently with minimal maintenance.

PPG customers get the patented, trusted technology of the Accu-Tab system along with the support of a worldwide network of authorized Accu-Tab system specialists who offer years of invaluable commercial pool expertise at a local level. They work closely with operators, builders and design engineers to match the right system to specific commercial pool and spa chlorination requirements.

Water flows into the chlorinator through a flow meter and level control valve. After the chlorine solution passes through the chlorinator pump, a valve on the discharge side provides precise chlorine residual control. Accu-Tab tablets erode at a predictable rate based on the amount of water, allowing for a consistent delivery of chlorine. Once the water is chlorinated, it flows back into the main water line and is distributed throughout. If the water flow is shut off, the chlorinator stops automatically, ensuring the tablets above the sieve plate remain dry when the unit is not in operation.
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Accu-Tab system specialists are trained and authorized by PPG. Whether it’s consulting on chlorinator operation, delivering tablets or helping to keep you in compliance with state and local health codes and regulations, your Accu-Tab system specialist can help you succeed from installation and beyond.
The Power of the Accu-Tab System Over Alternatives

The Accu-Tab system minimizes the safety concerns typically associated with the use of liquid bleach and trichlor feeders. In addition to reducing the risk of leaks and spills, it requires only rubber gloves and safety goggles to handle calcium hypochlorite tablets. Unlike salt chlorine generators, there are no salinity issues, the system does not require costly anode cells or nearly as much electricity to operate and it can be adjusted easily to accommodate changes in chlorine demand.

The Accu-Tab system performs more predictably than other calcium hypochlorite systems because of the quality of tablets and the controlled high water flow/lower chlorine concentration delivery technology.

<table>
<thead>
<tr>
<th>FACTORS</th>
<th>ACCU-TAB® SYSTEM</th>
<th>ALTERNATIVE CAL-HYPO SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Principle</td>
<td>High water flow rate, low chlorine concentration ~ 200 ppm</td>
<td>Soaking or spraying over briquettes, high chlorine concentration ~ 10,000 ppm</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Low chlorine concentration results in less scaling and sludge – typically once per year cleaning!</td>
<td>Strong chlorine solution leads to faster scaling – clean out sludge twice per month or more!</td>
</tr>
<tr>
<td>Flexibility</td>
<td>Chlorinators have a proportional 95% turn-down capability for small bodies of water</td>
<td>Chlorinators need costly controllers to chlorinate small bodies of water</td>
</tr>
<tr>
<td>Plumbing</td>
<td>Large (up to 2&quot;) PVC plumbing minimizes plug potential and maintenance</td>
<td>Small diameter tubing can plug with scale; tubing has potential to leak if pinched</td>
</tr>
<tr>
<td>Parts Replacement</td>
<td>Off the shelf replacement parts – fewer parts overall</td>
<td>Small plastic parts are proprietary and must be purchased from dealer</td>
</tr>
<tr>
<td>Chlorinator Construction</td>
<td>Rugged aluminium frame with schedule 40 PVC pipe; chlorinator and pump on one skid</td>
<td>Molded plastic chlorinator construction and separate pump installation</td>
</tr>
<tr>
<td>Tablet Quality</td>
<td>Tablets resist breakage and erode consistently based on proprietary manufacturing process</td>
<td>Small briquettes are formed, not pressed, and may break and crumble in transit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FACTORS</th>
<th>ACCU-TAB® SYSTEM</th>
<th>12% CHLORINE BLEACH</th>
<th>SALT CHLORINE GENERATOR</th>
<th>TRICHLOR TABLETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety</td>
<td>Solid chemical – no dual containment required</td>
<td>Dual containment required for concentrated liquid solution</td>
<td>Typical 100,000-gal. pool requires ~ 4,200 lbs. of salt for initial start-up</td>
<td>Emits nitrogen trichloride fumes</td>
</tr>
<tr>
<td>Capacity</td>
<td>High instantaneous chlorine rates for peak chlorine demand</td>
<td>Possible bleach degradation in hot weather</td>
<td>Backup chlorinators often required to maintain chlorine level in certain outdoor pools</td>
<td>Low chlorine delivery and inconsistent</td>
</tr>
<tr>
<td>Handling</td>
<td>55-lb. pails</td>
<td>55-gal. drums weigh 500 pounds</td>
<td>Hundreds of pounds of salt</td>
<td>40-lb. pails</td>
</tr>
<tr>
<td>Water Quality</td>
<td>Calcium polishing results in clearer water</td>
<td>High total dissolved solids (TDS)</td>
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<td>Over stabilization</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Chlorinators rarely require cleaning or maintenance</td>
<td>Feed pumps need constant repair and tubing leaks regularly; gas locking of pump is not uncommon</td>
<td>Must replace expensive cells every two to four years</td>
<td>Low maintenance</td>
</tr>
<tr>
<td>Material Compatibility and Corrosivity</td>
<td>Relatively diluted 100-300 ppm hypochlorite solution</td>
<td>Concentrated (120,000 ppm) hypochlorite solution very corrosive to pump room equipment</td>
<td>Stray voltage can cause corrosion</td>
<td>Low chlorine can cause corrosion of pool equipment</td>
</tr>
<tr>
<td>Total Dissolved Solids (TDS) and Cyanuric Acid</td>
<td>No stabilizer buildup; calcium addition</td>
<td>High pH adds a lot of total alkalinity to the water</td>
<td>Must maintain ~3,000-9,000 ppm salt concentration in the pool; salt is converted to chlorine as it’s passed through the cells</td>
<td>Constant buildup requires periodic draining; some states ban its use, especially in indoor public pools</td>
</tr>
<tr>
<td>Water Balance Chemicals</td>
<td>Provides helpful amounts of calcium and total alkalinity</td>
<td>Provides no calcium; often too much total alkalinity</td>
<td>Calcium addition will be necessary to maintain proper water balance</td>
<td>Must increase pH and calcium to maintain proper balance</td>
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</table>
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