

# Advantages of Solid Chemical Water Treatment

Solid water treatment products produced by AP Tech Group use state of the art, proven chemical combinations which are manufactured into a solid paste concentrate. The products are transported in a low carbon footprint profile and applied easily at your site with a patented dissolving system. You receive all of the benefits of a well run chemical program, without the hassles of dealing with liquids.

## Help Reduce Risk and Liability Concerns

### No heavy drums to move:

- Reduces potential for injury to employees and others.
- Moving heavy drums can result in injury, leading to costly Worker Compensation Claims.
- Reduces risk of exposure to hazardous chemicals (ie: corrosives, oxidizers and pesticides) to your employees and customers.
- **One case of Solid chemistry weighs 44 lbs and contains the same amount of active chemicals as a 55-gallon, 500 lb drum.**



### Eliminate Spill potentials:

- Spills can occur anywhere – in transit, or at your facility.
- Many liquid chemicals can be hazardous, damaging to the environment, and a potential for expensive litigation.
- **Solid chemistry has no potential to leak.**

### No on-site storage or drum disposal issues:

- Liquid chemicals are bulky and must be stored in containment areas according to their hazardous classification.
- Many facilities do not have extra space and must resort to storing all chemicals in one containment area.
- The potential for chemical reactions of different liquid chemicals can produce a very undesirable result.
- No triple rinsing of empty drums before disposal.
- **Five cases of AP Tech Solid chemistry can sit in the same storage footprint as a 55-gallon drum.**

## Help Your Facility Go Green

Whether you're looking to become LEED Certified or just looking for ways to make your facility more "Green", Solid water treatment chemistry can help.

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## Reduce Economic Concerns

Economic Benefits of having a well run APTech Solid Concentrate chemistry treatment program include the following:

- The cost of transporting solids is approximately **1-2%** of the chemical costs, versus **15-20%** of the chemical costs for liquids.
- Approximately 15-20% of your chemical budget is used to ship mostly water when using liquids.
- In addition to the substantially higher costs of transportation of liquids, there is also a “hidden cost” for using drums. One study put a time, then a dollar value to this hidden cost, and calculated an additional cost of over **\$140 for each drum**.
- **Solid chemistry can help you save water, sewer, and chemical dollars by reusing the water, its maximum number of times.**
- **One study concluded that increasing the number of times water can be reused in a cooling tower from 4 to 6 cycles, would have the effect of reducing water make-up demand by over 408,000,000 gallons annually in just the Commercial and Institutional markets.**



## Reduce Your Carbon Footprint

- Liquid chemicals are very heavy and consume a great deal of energy to transport.
- Most liquid products require adding caustic to the mixture to remain in solution.
- **Solid Concentrate products do not require the addition of hazardous caustic.**
- **A 55 Gallon drum, weighing 500 pounds, will consume 2.5 more gallons of diesel fuel per typical shipment than a 50 pound carton of APTech Solid chemistry having the same amount of active ingredients.**

Solid products manufactured by APTech Group, Inc. in Cincinnati, Ohio exclusively for:



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