

# Smart<sup>release</sup><sup>®</sup> Technology

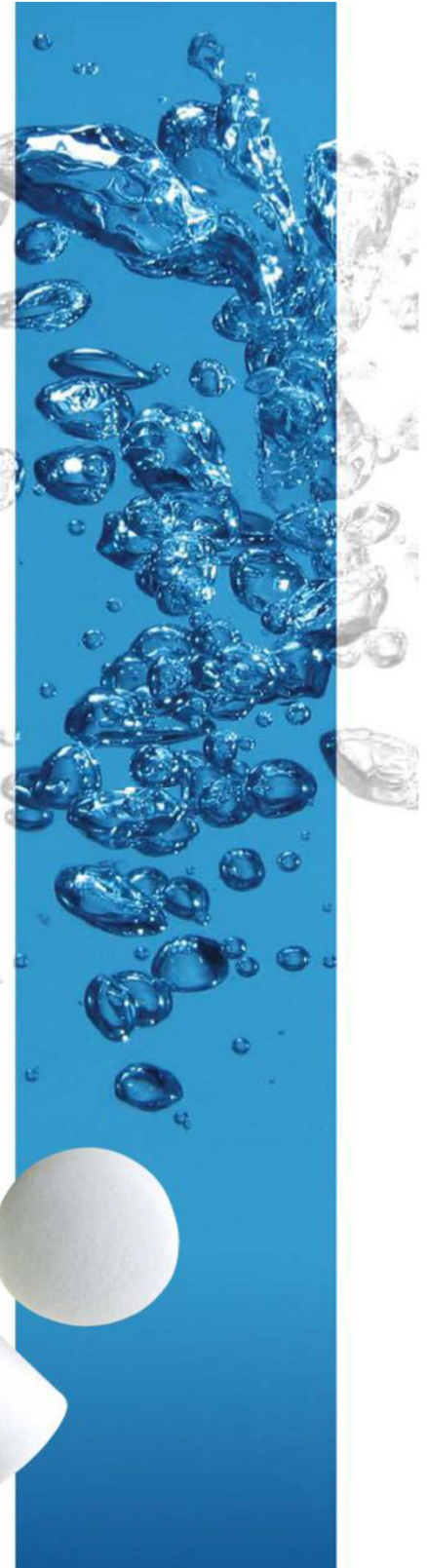
*Simple . Safe . Reliable*

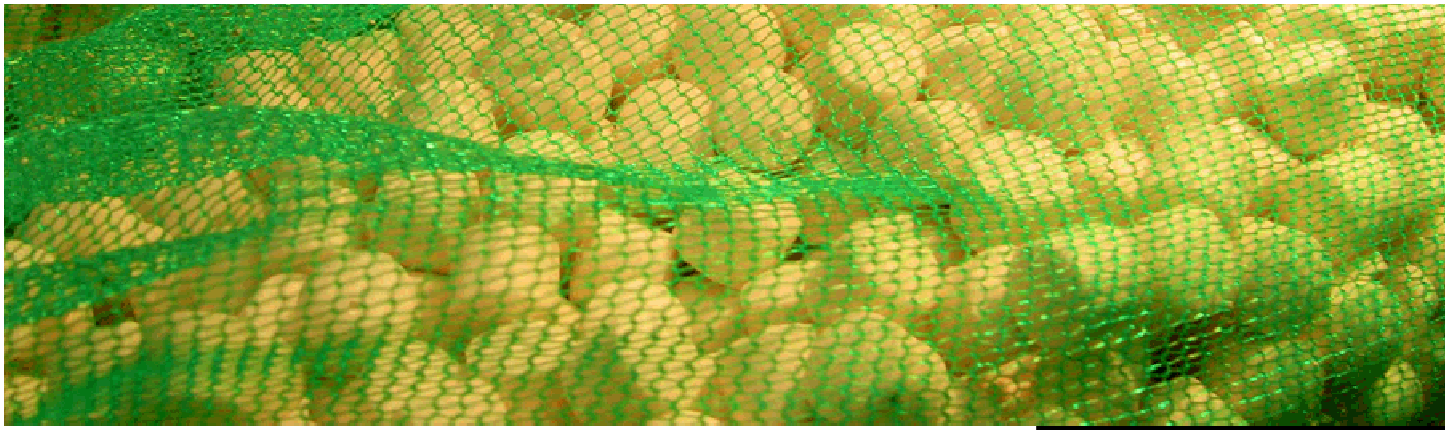


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***Solid Chemistry For Cooling  
Tower Water Treatment***

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**Diffusion based solid chemistry delivering chemical treatment through osmotic pressure designed for use in cooling towers where a solid, controlled-release biocide and anti-scaling treatment is desired. Does not require pH altering additives to stabilize chemistries.**



**Simple:** Water in, water out.

- Consistent release of product.
- No chemical pumps are needed.



**Safe:** Non-hazardous tablets are friendly for employees.

- No handling of liquid chemicals.
- No need for spill containment.
- No drum or pail disposal.



**Reliable:** When water is flowing, product is releasing.

- Constant and consistent treatment of water.
- No feed pump failures to interrupt chemical release.
- Proprietary polymer coating produces consistent release.
- Reduced operator involvement.



**Green:** Environment friendly.

- Increase cooling tower cycles of concentration (COC).
- 100lbs of Smart Release® equals 600lbs of traditional liquid product.
- Smart Release® tablets are contained in lightweight 100% recyclable packaging.
- Smart Release® feeders are made from recycled materials.

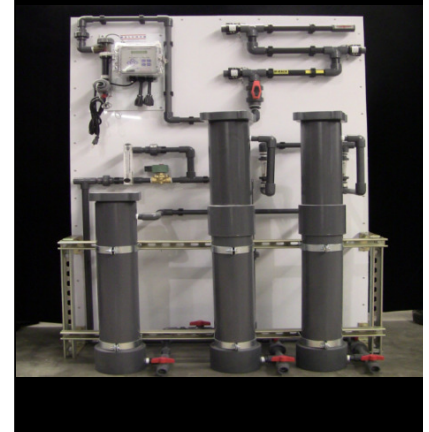
Corrosion and scale inhibitors



Oxidizing and non-oxidizing biocides



Smart Release® control and feeder system



As long as water is flowing, Smart Release® is working...

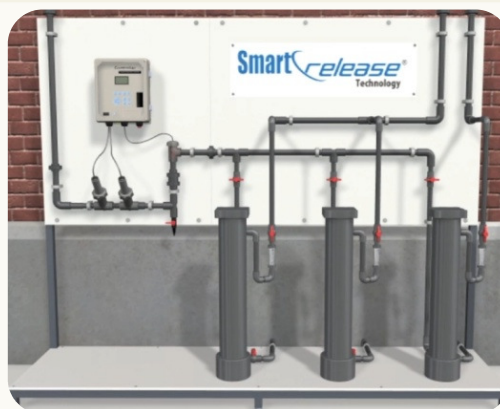
#### Corrosion and scale inhibitors:

- Minimizes maintenance costs.
- Protects all system metals.
- Contains no heavy metals.
- Controls mineral scales.
- Controls system fouling.

#### Biocides:

- Minimizes maintenance cost.
- No liquid handling.
- Controlled release of product.
- Dust-free packaging.
- Controls system fouling.

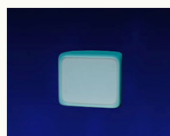
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Diffusion based chemistry development on the basis of osmotic pressure.



Water enters polymer coating.



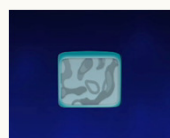
Water activates chemistry forming a slurry.



Chemistry forced out through polymer coating as treated water.



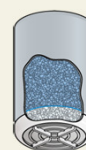
Osmotic pressure from within tablet forces it to swell.



Proprietary coated membrane is located in the canister orifice.



Water permeates the membrane and floods the canister.



Solid chemistry becomes a slurry/mixture of chemistry.



Osmotic pressure forms and forces treated water out.



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