

TREATED
SureCure[®]



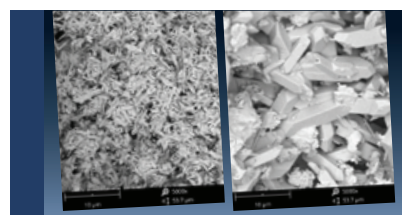
**No Steam Curing
Required.**

HAMMOND
THE CHANGE CATALYST[®]

Industry-Leading Innovation

Treated SureCure® Improves Your Product AND Your Bottom Line

Hammond patented the Tetrabasic Lead Sulfate (TTBLS) manufacturing process two decades ago, then developed SureCure® as an additive for battery makers to include in their positive active material. Treated SureCure® is now used by battery manufacturers around the world to improve their products in a variety of ways, while eliminating the costly and time consuming process of steam curing plates.



Accelerated TTBLS Crystal Growth

SureCure's® micro-milled "Seed Crystals" accelerate the conversion of Tribasic Lead Sulfate (TbLS) to uniform TTBLS crystals during the plate curing process. SureCure® does not need steam to produce a uniform TTBLS crystal structure, saving energy and capital investment, compared to competitors' TTBLS additives.



Reduced Curing Time and Energy Use

Replacement of 1% of battery oxide with SureCure® significantly accelerates the conversion of TbLS to TTBLS while also improving crystal structure and reproducibility. Shorter curing times result in reduced labor and energy costs, as well as reduced capital investment for curing chambers and plate inventory.



Documentable Savings of Paste Material

There are several cost-saving opportunities with SureCure®. The most significant is up to 5% reduction in positive active material with the addition of SureCure®. This is possible because a TTBLS-cured plate is much stronger than a Tribasic Lead Sulfate-cured plate, allowing positive paste density to be reduced.



Customer-Specific Particle and Batch Size

With Hammond's advanced global manufacturing capabilities, the SureCure® micro-milling process is dialed in to deliver specific customer particle sizes. Packaging is tailored to batch sizes. And, our robust production management system ensures consistent, trackable results.



Improved Positive Plate Performance

Manufacturers using Treated SureCure® see increased charging efficiency for better battery performance with less overcharge. All of these improvements translate to better battery performance in cycling, in some cases up to 70% improvement in cycle life over Tribasic Lead Sulfate and older SureCure® additives.



TREATED
SureCure®

Research on advanced energy storage solutions never stops at Hammond. New Treated SureCure® has been customized and refined for a variety of Flooded and VRLA Battery applications.

- All the Benefits of Standard SureCure®
- Improved Charge Acceptance
- Enhanced Partial-State-of-Charge Cycling
- Increased Formation Efficiency
- Improved Initial Capacity

Hammond Manufacturing Facilities in America and Asia Ensure a Consistent Treated SureCure® Product and Supply

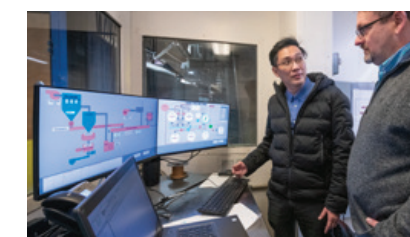


Hammond Group, Inc. recently began full-scale operations on its new multi-million dollar North American Treated SureCure® line in

Hammond, Indiana — the culmination of years of advance planning involving technical experts from across the company's global team. This facility, along with increased production capacity at Hammond's

Malaysian plant **doubles the global production capacity of SureCure®** to meet demand for one of Hammond's most

effective battery performance additives. Both lines are ISO:9001 certified for quality.



Our new US line for Treated SureCure® includes state-of-the-art equipment and processing methods. With the recent expansion, Hammond facilities in the US and Malaysia have a production capacity of up to 10 million pounds of Treated SureCure® per year.

HAMMOND

THE CHANGE CATALYST®

+ Hammond
+ Pottstown

+ United Kingdom

+ Malaysia

Serving the Global Battery Industry

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