

Goodway® ScaleBreak®-000: Redefining Industrial Descaling for Power Generation

Next-Generation Chemistry for Safer, Faster, and More Efficient Heat Transfer Equipment Maintenance

In power generation facilities, scale is more than a maintenance issue. It is an efficiency issue, a reliability issue, and ultimately a profitability issue.

Mineral deposits such as calcium carbonate create an insulating barrier on heat transfer surfaces. As scale accumulates inside condensers, feedwater heaters, boilers, cooling systems, and auxiliary heat exchangers, thermal efficiency declines. The result can be higher operating costs, increased condenser backpressure, greater energy requirements,

reduced generating capacity, and longer maintenance outages.

Removing these deposits is critical, but traditional chemical descaling has often required facilities to balance cleaning performance against worker safety, environmental impact, and operational complexity.

Goodway® ScaleBreak®-000 changes that equation.

A New Generation of Industrial Descaling

For decades, power plants have relied on aggressive acids to remove difficult mineral scale. While effective, these chemistries can introduce hazardous material transportation, extensive PPE requirements, harmful fumes, corrosion concerns, storage restrictions, and additional EHS planning.

ScaleBreak-000 was engineered to provide industrial-strength cleaning performance without many of these traditional compromises.

The advanced formulation removes calcium carbonate and mineral scale up to **2X faster than muriatic acid**, while carrying an **HMIS 0-0-0 rating**. It has also been demonstrated to be **non-corrosive to skin through OECD 404 GLP testing**.

For maintenance teams, that combination can help simplify chemical descaling while delivering the performance required for demanding industrial applications.



Faster Cleaning with a Safer Profile

During planned outages, reducing maintenance time is critical. Faster scale removal can help shorten chemical circulation times, restore heat transfer performance, and return critical equipment to service sooner.

ScaleBreak-000 also provides a significantly different safety and environmental profile than conventional aggressive descalers. It is:

- HMIS 0-0-0 rated
- Non-toxic and non-corrosive to skin
- 100% VOC-free
- 100% biodegradable within 10 days
- Non-regulated by U.S. DOT and Canadian TDG
- Free from CO₂ generation during descaling

Its non-regulated transportation status can also simplify procurement and outage logistics by eliminating many hazardous-material shipping requirements, fees, and carrier restrictions.

ScaleBreak-000 has been evaluated using EPA Whole Effluent Toxicity (WET) methods and carries certifications and approvals including **NSF/ANSI/CAN 60, NSF A8, FDA GRAS, and NAVSEA.**

Together, these characteristics allow power generation facilities to improve the safety and environmental profile of chemical descaling without sacrificing cleaning performance.

Optimize Cleaning with ScaleBreak PulseFlo™

Advanced chemistry performs best when paired with equipment designed to maximize its effectiveness.

Goodway ScaleBreak PulseFlo™ GDS descaling pump systems provide the circulation required for efficient clean-in-place descaling.

ScaleBreak PulseFlo systems feature an innovative flow-reversal design that allows operators to instantly reverse circulation without disconnecting hoses. Reversing flow helps evacuate gases and foam generated during descaling while exposing deposits to fresh chemistry from the opposite direction, improving cleaning efficiency with less operator intervention.

Paired with ScaleBreak-000, ScaleBreak PulseFlo systems create a complete descaling solution



designed to maximize chemical effectiveness, improve circulation, and help maintenance teams complete cleaning projects faster.

A Better Approach to Industrial Descaling

Power generation facilities should not have to choose between cleaning performance, worker safety, environmental responsibility, and operational efficiency.

ScaleBreak-000 brings these priorities together in a next-generation descaling chemistry engineered for demanding industrial environments.

For engineers and maintenance teams focused on maintaining thermal performance, minimizing outage duration, and simplifying chemical maintenance, ScaleBreak®-000 represents a fundamentally better approach to industrial descaling.



Learn more about
ScaleBreak-000



Discover our different ScaleBreak
PulseFlo systems



See what other Power Plant
maintenance equipment Goodway offers



Contact our team
to speak with an expert