GAME-CHANGING FUNCTIONAL HEAT TRANSFER SURFACE
HeatX is a nanocomposite technology designed specifically for heat transfer surfaces focused on increasing the performance and surface protection from fouling and deposition. HeatX is a non-hazardous, non-VOC, water-based surface treatment that is compatible with both hydrocarbon and aqueous products. It allows for fouling-release and drag reduction while not compromising heat transfer efficiency.

HeatX Benefits:

• Long-lasting, erosion-resistant surface treatment that can significantly extend the operational lifetime of an in-service heat exchanger.
• Provides chemical resistance against both highly acidic and alkaline solutions, imparting corrosion resistance.
• Releases biofouling on tube interiors, improving cooling efficiency and reducing pressure drop from frictional drag.
• Extreme thinness of the surface treatment (< 4 mil DFT), allows for negligible change in exchanger thermal efficiency.
• Surface treatment material is compatible with a variety of different inspection techniques (eddy current, borescope, leak testing).
• Functional up to 400°F, and stable under thermal cycling.
• Non-biocidal, non-toxic formulation is environmentally friendly

HeatX Applications:
HeatX has successfully demonstrated the value in field applications, both for new and in-service heat exchangers. So far, HeatX has been applied on both shell & tube and plate & frame exchangers. The longest running data is from a seawater chiller: 18 months of data after application shows virtually zero fouling or corrosion. More importantly, this application demonstrated a projected savings of $72,000 on maintenance and $1.5 million on replacement generation cost over a period of five years – per heat exchanger unit.

18 Months of use shows virtually no biofouling in the exchange tubes