



Energy Storage - Sulfuric Acid Cooling

General Information

Industry: Energy Storage / Flow Batteries
 Product: Heat Exchangers
 Application: H₂SO₄ Cooling
 Install Date: 2015



Problem

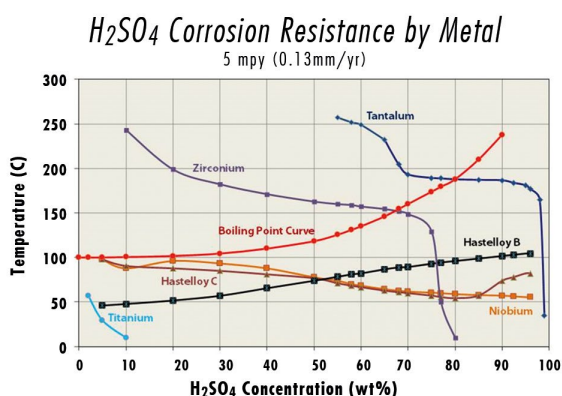
The application requires a zero corrosion rate, in a range of sulfuric acid concentrations at elevated temperatures. The heat exchanger material cannot deteriorate or contaminant sensitive fuel cell components. The units must be compact and have a small footprint to fit within the flow battery units.

Solution

Ultramet CPT tantalum treated stainless steel heat exchangers designed by Alfa Laval provided the needed cooling capacity and corrosion resistance for the application.

Result

Now dozens of Ultramet CPT tantalum treated heat exchangers are providing mega-watts of power storage to wind and solar farms. The Ultramet CPT solution allows the flow battery system to utilize a high capacity strong acid for high efficiencies while maintaining the integrity of the sensitive membrane electrode assemblies.



ULTRAMET CPT
 ELIMINATE CORROSION



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