

Anotection[®] Anodic Protection

Sulfuric Acid Process Equipment

Developed by Corrosion Service in the early 1960's, Anotection[®] Anodic Protection is the original corrosion prevention solution for Sulfuric Acid technology.



Critical

Commercially pure Sulfuric Acid has a wide range of applications, making it the central ingredient in the production of many products used throughout the world. However, during production and transportation, commercially pure Sulfuric Acid is corrosive and will attack steel equipment. This results in general 'cold product' corrosion rates of 5 to 20 mils per year with rates increasing with temperature. Terminals and production facilities in hot and humid environments often see much higher corrosion rates, resulting in a less pure acid and damaged process equipment. Unfortunately, without protection, leakage of unprotected steel process vessels is common, and the risk of structural failure high, making corrosion a key concern to be addressed.

Dependable

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Requiring only minor modifications to existing vessels and minimal adjustments to new designs, Anotection[®] is an efficient and cost-effective electrochemical corrosion prevention technique. Programmable hardware passes an electrical current between the surface of the vessel and an immersed cathode, forming a protective film on the surface of the metal. This film prevents further corrosion and mitigates iron contamination. A DC current is then applied continuously to maintain the film and provide indefinite protection.

Features & Benefits

- + Mitigates general corrosion and reduces the risk of process equipment failure.
- + Eliminates iron contamination and maintains acid purity, helping to maximize your return on investment.
- + Avoid the high costs associated with linings, coatings, and exotic alloys.

Applications

- + Sulfuric Acid Storage Tanks.
- + Sulfuric Acid Coolers.
- + Sulfuric Acid Piping.

Process Engineering

All Sulfuric Acid tank systems are different, and whether the project is new build, rehabilitation, or routine maintenance, our talented team of industry professionals is empowered to understand the unique characteristics of every enquiry. This is important because as an organization, Corrosion Service strives to provide the extremely high level of support, partnership and customized solutions that our clients require on a daily basis.

Our Process Engineering Group (PEG) is strategically located in Toronto, Canada and is the primary line of contact for Anotecion® Anodic Protection clients throughout the world. PEG is capable of providing frontline expertise to clients throughout the world. Team members are highly trained with all engineering staff certified at various levels by the National Association of Corrosion Engineers.

Materials

Our materials supply team is capable of providing a full-range of Anotecion® Anodic Protection parts and equipment both manufactured in-house and sourced from partner suppliers. Our dedicated supply chain team is based in Toronto alongside our material distribution hub, which is capable of delivering materials throughout the world on short notice.

Safety

Safety is a fundamental company value that governs everything that we do. Our organization is firmly committed to protecting the health and safety of our Team Members, Customers, Contractors and the General Public. Working together on a foundation of commitment and enthusiasm, while integrating Safety into all facets of our operations, we constantly strive to achieve a workplace free of hazards, injury and illness.

Quality

Our commitment to providing a combination of unparalleled customer service with a deep understanding of customer needs, directs the focus of our quality management system and instills a modern quality consciousness throughout our company. By adopting a culture that embraces complete quality responsibility, beyond the basics of inspection and test, every team member is empowered to take the necessary steps to realize that commitment. Our quality management system is aligned with the requirements of ISO 9001 and provides the high level of flexibility required in today's fast-paced engineering world. Our dedicated quality professionals work with stakeholders to implement quality management practices that ensure we facilitate the efficient and effective delivery of products and services.

Project Management

All team members are committed to the successful delivery of projects, and success is built upon a foundation of delivering on time and on budget. That is why our project management processes and procedures are aligned with industry best practice. The primary role of our Project Management Office (PMO) is to provide all team members throughout the organization with a common Project Management Institute PMBOK aligned framework, for launching and implementing project activities. Monitoring of project delivery is facilitated through our industry-leading Enterprise Resource Planning software, and a project management environment built upon the Microsoft Project platform.

Our Services

- + Engineering/Design
- + Maintenance
- + Troubleshooting
- + Materials supply
- + Project Management