



Lead and Silicon Lined Anode



Let our expertise
help you achieve the goal



website : www.metro-everest.com



Essentials in APL Process



In stainless steel mills, stainless strips are processed in a continuous Annealing and Pickling Line (APL) for treatment after the cold working.

The Annealing process provides a substantially heat treatment which can refine stainless steel strips. This process however, due to the high heat, causes improper oxidation, scale and heat tint which must then be treated by the Pickling process.

In Pickling process, the stainless strips are fed through a continuous bath of Sodium Sulphate (Na_2SO_4) and Nitric Acid (HNO_3). In order to accelerate this process, we apply a procedure called “Electrochemical Pickling” in which the steel strip is passed between pairs of anodes and cathodes where an electric current is sent.

Essentials in APL Process



Along with increasing temperature of the acid bath, this process removes impurities, such as scale, rust and stains resulting in high productivity and uniformity in steel strip surface quality. This important process enhances the naturally self-passivate ability of stainless steel.

Due to the corrosive nature of the baths, the electrodes which have a steel base structure, is coated with either Lead or Silicon to provide corrosive protection while retaining the ability to conduct electricity.

The adhesion methods of the lead or silicon onto the steel base are critical. ME has cumulated years of experiences and keeps improving better methods of adhesion. With outstanding workmanship ability, ME ensures providing longer lifetime and better quality products than our competitors. This lowers the overhead costs of frequent replacement to better satisfy our clients worldwide.

ME Lead Anode

Flexible, Innovative and Reliable

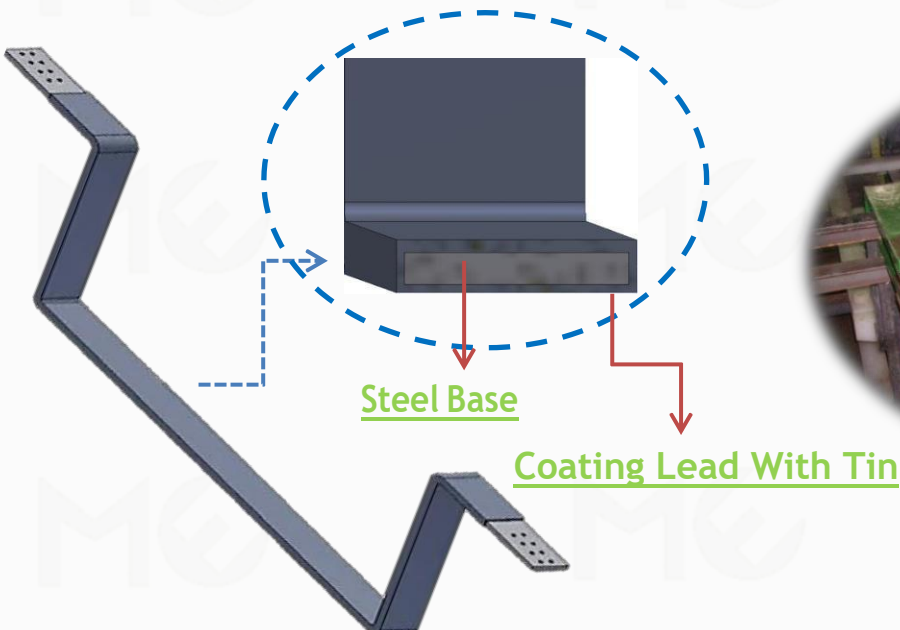
Good quality can always be improved to great. ME R&D department has concentrated on investigating new techniques. With innovative ideas, we assured our clients that ME only delivers the best solutions to meet their demands.



Lead Anode above has a steel base structure coated with Lead to provide corrosive protection.

With years of experiences, ME is able to make customized Lead anodes with your needs.

Structure of Lead anode



ME Performance Against Competitors

Random Test Object : One ME Lead Anode operating in No. 2 Cold Rolled Annealing and Pickling Line of YUSCO

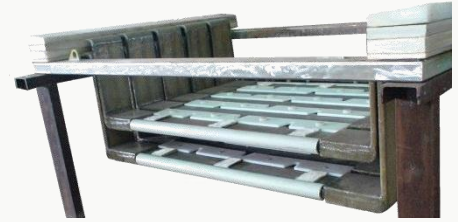
The picture in the left shows a ME Lead Anode operated in No.2 Cold Rolled Annealing and Pickling Line at Yieh United Steel Corp (YUSCO). This Lead Anode has been in use for over 1 ½ months continuously, and it has not showed any type of lead coating deformation nor weakening.



Random Control Object : A Competitor's Lead Anode operating in No.2 Cold Rolled Annealing and Pickling Line of YUSCO

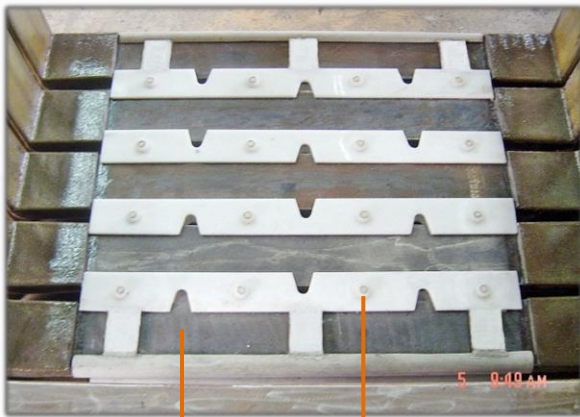


The picture in the left shows a Lead anode made by our competitors. Please check the circled area. It shows a severe scale appearance on the bottom of the anode. It only took less than one month to have serious erosion on this Lead anode.



ME Silicon Anode

Economic, Efficient and Cutting-edge



Silicon steel anode base

Coating FRP

Covered by PP plate

Silicon Lined anodes (FES15) are coated with FRP and protected by PP plate with copper for electric conductivity. This unique type of anode can accelerate the pickling process as well as create a shiner stainless steel surface. ME is professional in manufacturing Silicon lined anodes.

In order to be the best, ME always put the most efforts in integrating the leading-edge technology with our valuable experiences.



ME Customer List



Country	Company
Taiwan	Yieh United Steel Corp.
	Tung Mung Development Co., Ltd.
	Chien Shing Stainless Steel Co., Ltd
China	ThyssenKrupp-Shanghai (SKS)
	Lianzhong Stainless Corporation
Oversea	Outokumpu Stainless USA, LLC



Get In Touch

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