



新乡市未来水化学有限公司

Xinxiang Future Hydrochemistry Co., Ltd.

Address: 453400 Changyuan Town, Xinxiang City,
Henan Province, China
Tel: +86-373-8795215 Fax: +86-373-8751158
Website: <http://www.ti-anode.com>
Email: Sale@ti-anode.com

Company Introduction

Xinxiang Future Hydrochemistry Co., Ltd. (FHC) specializes in developing and manufacturing high-performance MMO coated titanium electrode products. We deliver reliable, state of the art and cost-effective products. Our products have been used in China for over 20 years and in last decade, our products export to overseas had been steadily increased in North America, Europe, Africa, South America, Middle East and Asia, etc.



Titanium Anodes Type of Coating and Application:

Titanium anode is state-of-the-art anode which plays a major role in the area of electrochemical applications. The excellent stability of titanium anode against surface and pitting corrosion, and as a result, this product dimensionally stable and permit dramatic innovations in equipment design, operation and energy saving in many electrochemical and electro kinetic applications. The oxide coating on the anode contains mixed metal oxides (MMO), such as RuO_2 , IrO_2 and other noble metals.



Anode Types and Composition, Applications

Type	Application	Composition
Ruthenium Coated Ti Anode	Used in Chlor-alkali, Potassium Chlorate Production, Water Electrolysis, Sewage Treatment, salt water chlorinator, etc.	Base Materials: Ti Coating Materials: RuO_2 , TiO_2
Ruthenium / Iridium Coated Ti Anode	Used in Gold Plating, Platinum Plating, Nickel Plating, Chromium Plating, etc. Used in Oxygen-Evolution Condition, especially in Oxygen-Evolution Condition, Sulfuric Acid Medium and Copper Foil Field with high current density	Base Materials: Ti Coating Materials: RuO_2 , IrO_2 , TiO_2
Iridium / Tantalum Coated Ti Anode		Base Materials: Ti Coating Materials: RuO_2 , Ta_2O_5 , TiO_2
Precious Metal Coated Ti Anode	Precious metal chemicals baths and salts in Gold, Rhodium, Ruthenium, Platinum and Palladium	Base Materials: Ti Coating Materials: Pt, Pd, Au, Rh, Ru, etc.

Size and shape are determined by

- The electrochemical cell or installation wherein the anodes are used.
- The process conditions such as electrolyte composition, temperature, current density, design life, etc
- Mechanical load of the anode.
- Capacity of electrical conductivity of the base material.



Advantages

- When activated coating is passivated, it can be coated again and use repeatedly.
- Economical energy.
- Low weight.
- High dimensional stability and load resistance.
- Highly suitable as auxiliary anodes of complex geometrical shapes.



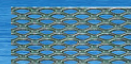
Manufacturing Range

- Box type ■ Rod type ■ Wire type
- Plate Type ■ Mesh Type ■ Louver Type
- Ribbon Type ■ Tubular Type ■ Runner Type
- Any other Geometry ■ Ring Type



Applications

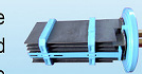
- Copper foil production ■ Chlor Alkali Cells
- Chlorine Dioxide Cell ■ Caustic Potash
- Water Electrolysis ■ Sewage Treatment
- Cathodic Protection ■ Electrolysis plating
- Industrial Waste Water Treatment ■ Pulp and Paper



- Electrowinning Metal Extraction/Recovery
- The Manufacture of Inorganics
- The Manufacture of Organics
- The Manufacture of Organics
- The Recycle of Chemicals and Materials
- Separation and Purification
- Atmosphere Control and Improvement
- Destruction of Toxic Waste
- Soil and Groundwater Remediation
- Swimming Pool Water Treatment (saltwater chlorinator)



All substrates and electrolysis cells are produced according to customer specifications. We disassemble, inspect, repair and assemble these cells and provide the cells with new or recoated electrodes if necessary. We also manufacture complete replacement cells. When these specifications are not yet completely determined, our engineers are pleased to use their knowledge and experience to finalize the design together with the customer.



In the past decades, we have provided our customers electrodes products with high quality, long lifetime; helped our customers to solve difficult application problems; improved production quality and reduced the cost. We will continue to work with our customers together to be the best.

