

钛阳极 Titanium Anode

WATER TREATMENT APPLICATION

Application: Power plant cooling water pollution prevention, large ship ballast water treatment; Small sodium hypochlorite generator; Domestic sewage treatment, etc

Dimension: According to customers' drawings

Features:

Life Span: Current density $\leq 1000-1500A / M^2$, Life time reach 5 years.

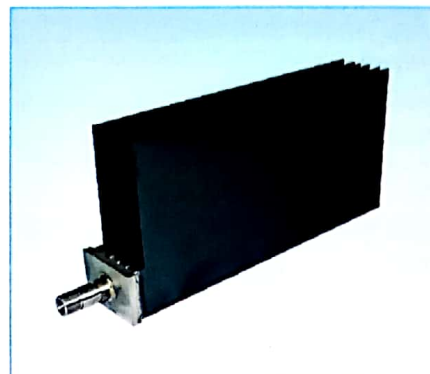
Chlorine evolution potential :

$\leq 1.12V$ (Test Condition Reference HG/T2471-2001)

polarizability: $\leq 40mV$ (Test Condition Reference HG/T2471-2001)

Substrate Material: Pure Titanium Standard:ASTMB265 GR1

Coating: Mixed Ruthenium oxide and Iridium oxide.



1. Titanium anode for chlorine dioxide by electrolysis

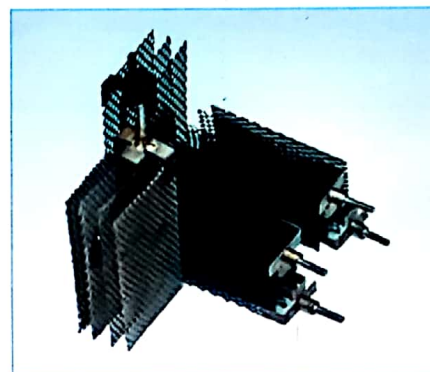
Application: Industrial water and drinking water sterilization treatment, paper industry and food industry

Dimension: According to customers' drawings.

Features: Reference sodium hypochlorite anode.

Substrate Material: Pure Titanium **Standard:** ASTMB265 GR1

Coating: Mixed Ruthenium oxide and Iridium oxide.



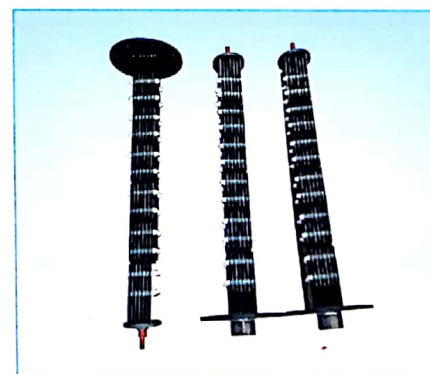
2. Titanium anode for electro dialysis

Application: Industrial feedwater treatment, material concentration, purification, separation and other physical and chemical processes, waste water, waste liquid treatment and recovery of precious metals etc.

Dimension: According to customers' drawings.

Substrate Material: Pure Titanium **Standard:** ASTMB265 GR1

Coating: Oxygen evolution coating; Chlorine evolution coating.



3. Titanium anode for removing calcium and magnesium from industrial wastewater

Application: Removal of calcium and magnesium ions from industrial wastewater; It can effectively sterilize water and purify water resources.

Dimension: According to customers' drawings, plate shape or mesh shape.

Substrate Material: Pure Titanium **Standard:** ASTMB265 GR1

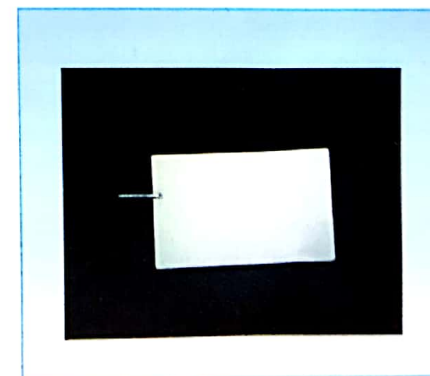
Coating: Mixed Ruthenium oxide and Iridium oxide.

TITANIUM ELECTRODE FOR ELECTROPLATING

1. Steel with galvanized / Tin anode

Electro-Galvanized plate: Galvanized sheet has good corrosion resistance, processing, weldability and painting ability, mainly used in automobile, household appliances, light industry and other industries etc.

Electro-Tin plate: Electroplated tin plate is mainly used in packaging industry. It has excellent corrosion resistance, beautiful appearance, high strength, light quality and good formability.



TITANIUM ELECTRODE FOR ELECTROPLATING

2. General Metal Electroplate

Application: Copper nickel plating; Decorative plating (trivalent chromium plating, jewelry, glasses, household hardware plating) different application areas of hanging plating, rolling plating technology; Electrocasting (dental products, contact bushing, contact needles, etc.); Hard chromium plating, special plating, electrophoretic coating, tin, copper plating, etc.

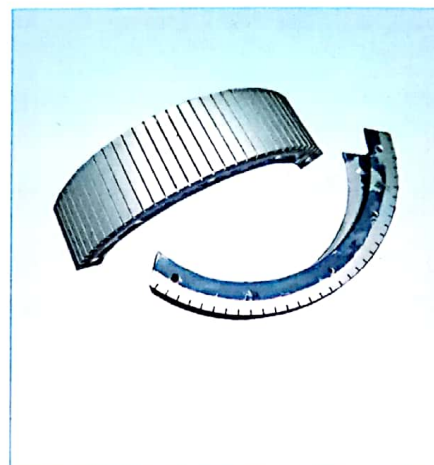
3. Platinum Plating Titanium Anode

Application: Seawater, potassium cyanide + citric acid, horizontal plating, pulse plating, cathodic protection, acid and alkaline.

Features: The platinum layer is firmly combined with the titanium base. It has stable performance, high current and low voltage. It is used for precious metals.

Condition:

Current density 8000A/m² Coating: platinum
Temperature: 80°C coating thickness: 0.2-15μm



HYDROMETALLURGICAL APPLICATIONS

1. Precious Metal-coated Titanium Anode For Copper Electrodeposition

Condition:

Sulfuric acid: 130-150g/L F: < 2PPM CL: < 1 g/L
Current density: > 200A/m² Cu: 40-60 g/L
Fe ion content: < 0.01 g/L Shape: mesh/plate

2. Lead Dioxide Anode

Working parameters:

PH Value: < 1-4
Coating thickness: 0.5-1mm
Current density: < 1000A/m²
Electrolyte: CuSO₄+ H₂SO₄ or NiSO₄+ H₂SO₄

3. Titanium anode for Vortex electrolytic

Working parameters:

Current density: 1200-2500A/m²
Electrolyte Temperature: 50- 70°C
Chlorine concentration: < 5g/L
Ion concentration: 10-300 g/L

