



## Platinized Titanium Electrode Rod

Platinized titanium anodes are manufactured with a titanium base structure, in the form of either plate, rod, wire, mesh or tube (or any shape as per request). A thin coating of platinum with at least 0.1 microns (with a 20 $\mu$  maximum) thick is maintained on anodes surface, made-ready for metal finishing at plating baths. These platinum coated anodes possess the electrochemical properties as platinum has and behaves like platinum metal.

Platinized metal anodes are widely recognized as a practical part for various applications including hard chrome plating, metal electroplating, electronics and semiconductor industry, chemical process engineering, electroplating, electro dialysis, electroforming (Conforming anodes), electrochemical sensing, electrowinning and metal refining, electrolytic regeneration of chromic acid, sodium hypochlorite production, Electrosynthesis of organic and inorganic chemicals and cathodic protection applications.

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## APPLICATION

- ▶ Electroplating of precious metal
- ▶ Ionized water electrolysis
- ▶ HHO generator
- ▶ Horizontal/pulse plating
- ▶ Cathodic protection



## FEATURES

- ▶ Excellent corrosion resistance and catalytic activity;
- ▶ Low hydrogen evolution potential, could be applied as both anode and cathode;
- ▶ Great current efficiency;
- ▶ Polarity reversible;
- ▶ Excellent coating adhesion;

## SPECIFICATIONS

<b>Electrode Substrate</b>	Titanium ASTM B338-2017 Gr1/2
<b>Coating Composition</b>	Platinum
<b>Working PH Environment</b>	1-12
<b>Fluoride Ion Tolerance</b>	<50mg/L
<b>Maximum Operation Voltage</b>	24V
<b>Maximum Operation Current Density</b>	7500 A/m <sup>2</sup>
<b>Shape</b>	Rod (customized)