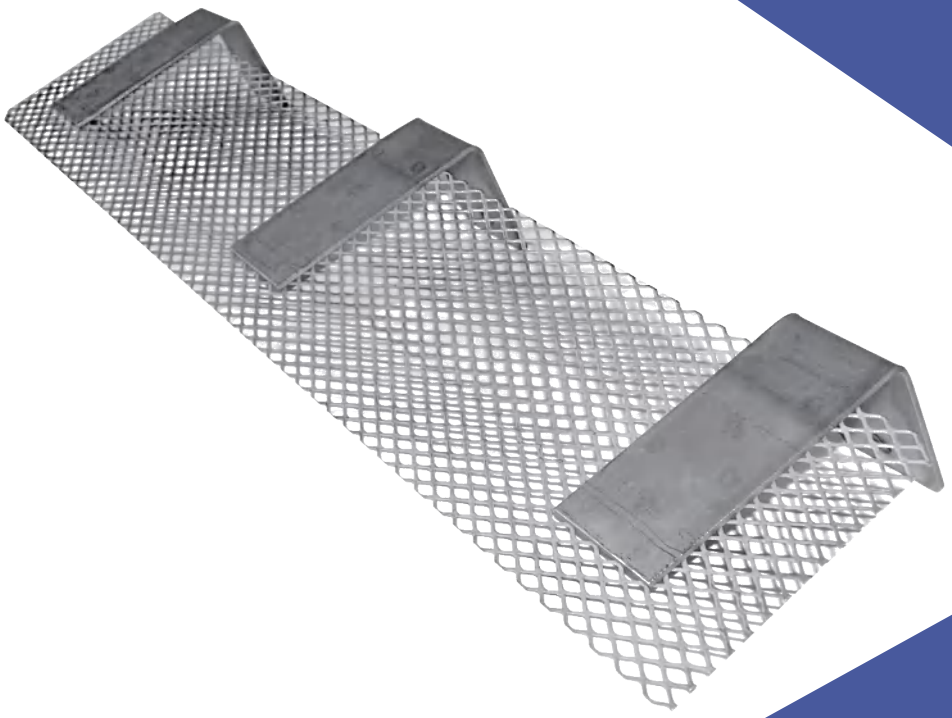

Platinized Titanium Electrode

The platinized electrode is the most widely used type of electrode.It makes a regular appearance in electroplating, fuel cells, and other electrochemical applications.

This electrode is based on titanium metal as anodes in the form of nets, plates, rods, filaments, tubes, wire and so on.The thickness of the standard platinum layer is 2-5μm. Under higher requirements, the thickness of the platinum layer can reach 20μm.

The service life of the platinum-plated titanium anode depends on the working medium (electrolyte) and the current strength (current density) of the anode. The current density should not exceed 75A /dm². Below this value, the wear of the platinum layer is very small, and the service life of the anode can also be estimated. According to experience, the wear of the platinum layer is about 1-4 grams per million amp-hours in a fluorine-free chromium plating solution. When the current density is higher than 75A/dm².

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APPLICATION

- Drinking Water electrolysis
- HHO generator
- Electroplating
- Electrolytic organic synthesis
- Electrodialysis
- Swimming pool disinfectant
- Perchlorate protection
- Chlor-alkali industry

FEATURES

- Long-term stability (both mechanically and chemically)
- Good electrocatalytic properties
- High electrical conductivity
- Superior corrosion resistance
- Uniform current distribution
- No toxic material leaching

SPECIFICATIONS

Anode Type	Platinized Titanium Electrode
Material	Gr1 Titanium as substrate
Coating Type	Pt+X
Dimension & Shape	Plate, mesh, rod or customized
Coating Thickness	General 1μm~6μm
Working Parameter	Current density ≤5,000A/m², PH 1 ~ 12, Temperature <80℃ Fluoride ion content <50mg/L