YUXI

PLATINUM COATED TITANIUM PLATE ELECTRODE FOR HYDROGEN PRODUCTION

PRODUCT DATA SHEET

AMPP CORPORATE MEMBER

www.yuxi-anode.com

Platinum Coated Titanium Plate Electrode for Hydrogen Production

As a well-known manufacturer and distributor of high quality electrode materials, YUXI offers high quality platinum coated titanium plates in various styles and sizes.

QUALITY SUBSTRATE MATERIAL

Our electrodes are manufactured from high-tensile titanium, which meets commercially Grade I/II standards.

Element	Grade I	Grade II
Iron(Fe)	0.20% max.	0.30% max.
Carbon(C)	0.08% max.	0.08% max.
Nitrogen(N)	0.03% max.	0.03% max.
Hydrogen(H)	0.015% max.	0.015% max.
Oxygen(O)	0.18% max.	0.25% max.
Single Impurity(Each)	0.10% max.	0.10% max.
Other Impurities(Total)	0.40% max.	0.40% max.
Titanium(Ti)	Remainder	Remainder

LONG SERVICE COATING

Using state-of-the-art technology, the titanium base is taken to a high temperature (≥1200 °C) in a vacuum sintering furnace ensuring total adhesion of the coating. Thus, the coating consumption rate is extremely low and uniform, measured in milligrams per ampere-year.

Technical Measurement	Performance
Coating Element	Platinum (Pt)
Coating Thickness	0.5~5 μm
Coating Uniformity	85% min.

WORKING ENVIRONMENT

Technical Measurement	Performance
Current Density	10000 ~20000 A/m²
Operating Voltage	DC 1.8~2.5V
pH Range	1~12
Temperature	50°C ~ 80°C
Fluoride Ion Content	< 50 mg/L

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Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheeps with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.

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