YUXI



RUTHENIUM-IRIDIUM OXIDES COATED TITANIUM MESH FOR CIRCULATING WATER DESCALING

PRODUCT DATA SHEET

AMPP CORPORATE MEMBER

www.yuxi-anode.com

Ruthenium-Iridium Oxides Coated Titanium Mesh for Circulating Water Descaling

Compared to typical chemical scale removal using acid solutions, electrolytic descaling, by means of titanium-based electrodes coated with noble metal oxides, is an effective and non-corrosive method to remove limescale fouling and the associated issues in industrial applications. Regarded as a environmentally friendly and preventive method for scale adsorption and bacteriostasis, YUXI's titanium electrode is ideal for eliminating the water-formed mineral deposits, biological sludge and corrosion —— so as to ensure maximum operating efficiency of water descaling.

QUALITY SUBSTRATE MATERIAL

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

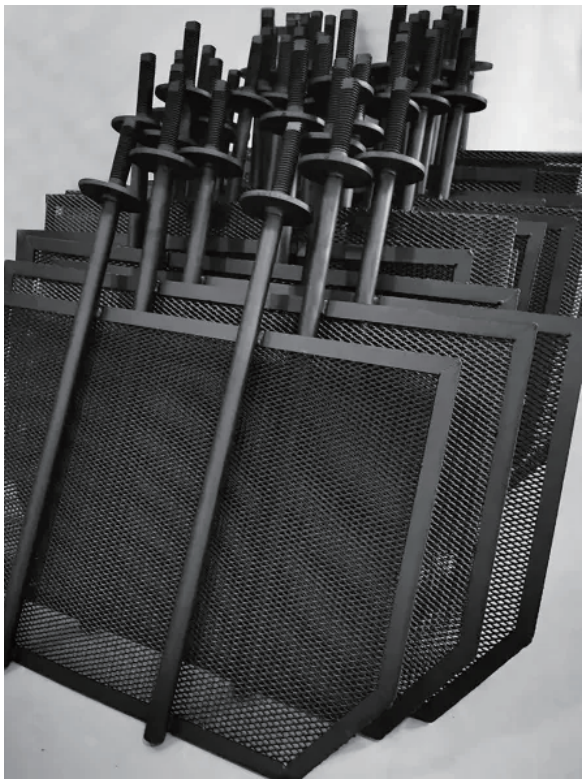
Element	Grade I	Grade II
Iron(Fe)	0.20% max.	0.30% max.
Carbon(C)	0.08% max.	0.08% max.
Nitrogen(N)	0.03% max.	0.03% max.
Hydrogen(H)	0.015% max.	0.015% max.
Oxygen(O)	0.18% max.	0.25% max.
Single Impurity(Each)	0.10% max.	0.10% max.
Other Impurities(Total)	0.40% max.	0.40% max.
Titanium(Ti)	Remainder	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	Iridium Oxide (IrO_2), Ruthenium Oxide (RuO_2)
Coating Thickness	6~12 μm
Coating Uniformity	85% min.



WORKING ENVIRONMENT

Technical Measurement	Performance
Current Density	≤ 5000 A/m²
Operating Voltage	≤ 24V
pH Range	1~14
Temperature	< 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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