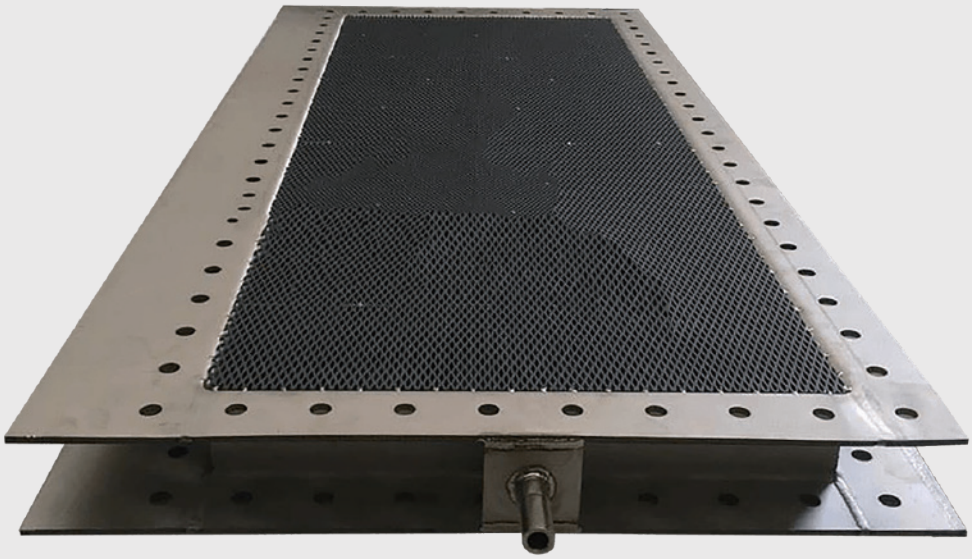
YUXI



RUTHENIUM-IRIDIUM OXIDES COATED TITANIUM MESH ELECTRODE FOR CHLOR-ALKALI PRODUCTION

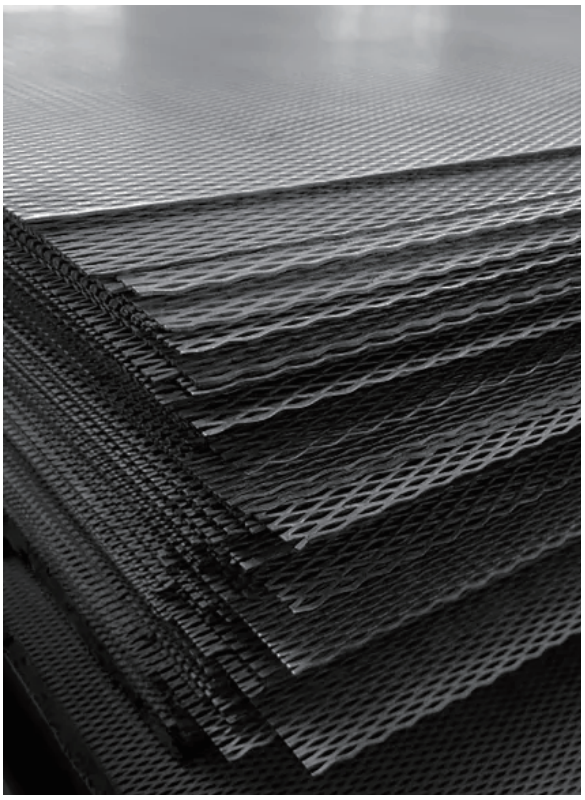
PRODUCT DATA SHEET

AMPP CORPORATE MEMBER

www.yuxi-anode.com

Ruthenium-Iridium Oxides Coated Titanium Mesh Electrode for Chlor-alkali Production

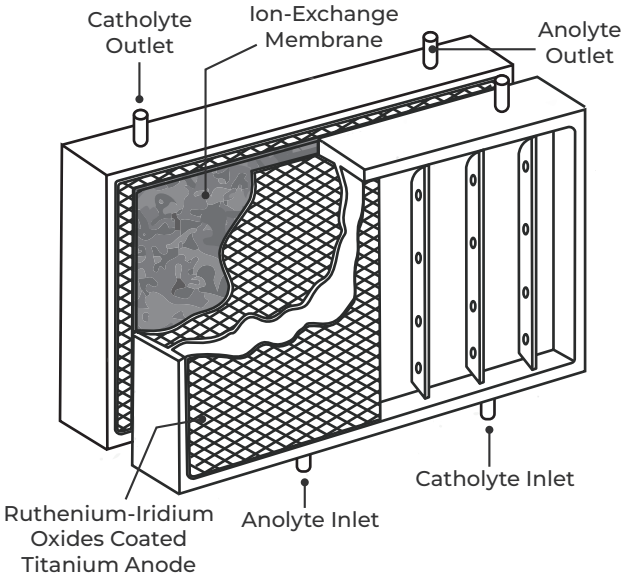
The chlor-alkali industry — in which chlorine(Cl2) and sodium hydroxide/caustic soda (NaOH) are produced simultaneously by electrolytic decomposition of saltwater/brine (NaCl) — has become the principal source of chlorine in modern chemical industry. The main process types used for electrolysis of saturated sodium chloride solution are : 1) diaphragm cell process, 2) mercury cell process, 3) membrane cell process. Howerver, the electrolyzing process in an membrane cell with positive and negatively charged electrodes is the most common and economical way preferred. Amongst all the integrated components in the cell, the quality of anode and cathode is such imperative parts that drastically affecting equipment efficiency. With excellent stability and high conductivity, YUXI's titanium mesh plate anodes are the optimum choice for long-term and large scale chlor-alkali production.



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.

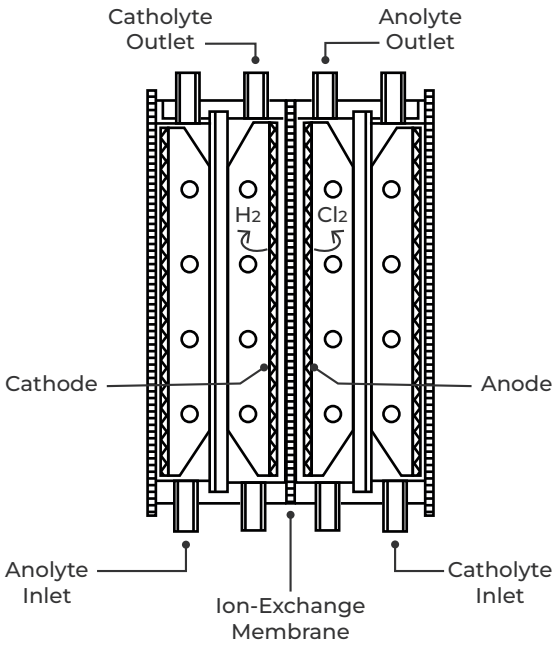
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Ruthenium-Iridium Oxides Coated Titanium Mesh Electrode for Chlor-alkali Production

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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