YUXI
CORROSION CONTROL

Ruthenium Oxide Coated Titanium Electrode Mesh

The chlorine evolution reaction (CER) has practical applications in the chlor-alkali industry and electrochemical wastewater treatment. Efficient, stable, and cost-effective electrodes are critical for energy efficient chlorine production, water disinfection, and wastewater treatment.

Ruthenium oxide coated are considered optimum choice as anodes in various industries for its strong corrosion resistance, low overpotential for chlorine evolution, great physical stability and its environmental safety. Compared with traditional electrodes, ruthenium oxide coated electrodes presence better electrochemical stability under sulfate/chloride environment and longer service life.

Accumulated decades of coated titanium electrode technology, YUXI kept providing our clients with high quality ruthenium oxide coated electrode regarding multiple chlorine-evolution systems. YUXI' s electrodes have been applied to industries like chlor-alkali industry, sodium hypochlorite production, seawater electrolysis, water treatment, electrowinning, etc.

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FEATURES

- Long-term stability (both mechanically and chemically);
- Good electrocatalytic properties;
- High corrosion resistance;
- High electrical conductivity;
- Low chlorine evolution potential;
- Long working life;
- Tailor-made service is available;
- Substrate can be reused after electrode deactivation;

SPECIFICATIONS

Substrate Material	Titanium ASTM B338-2017 Gr1/2
Shape	Mesh (customized)
Coating Composition	RuO_2 , IrO_2 + X
Current Density	< 3000 A/m^2
Working Temperature	< 60℃
Working PH Environment	1-12