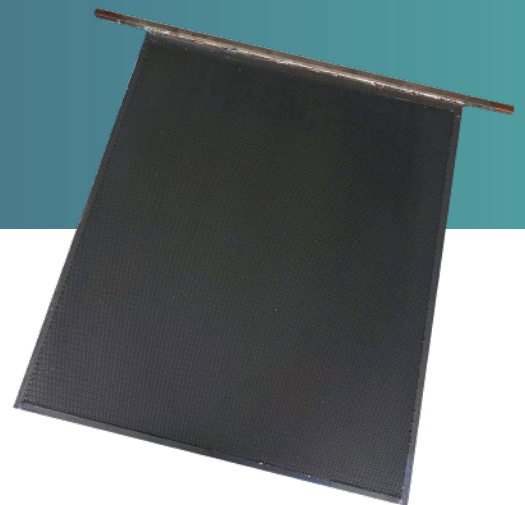




# LEAD DIOXIDE COATED TITANIUM MESH ELECTRODE



PREMIER MANUFACTURER OF DSA ELECTRODES



# LEAD DIOXIDE TITANIUM MESH ELECTRODE

## DATA SHEET

Used as an anode in electrochemistry, our lead dioxide electrode is an electrode with several lead dioxide layers applied to a titanium substrate.

This lead dioxide coated titanium mesh electrode offer low resistivity, good corrosion resistance even in low-pH medium, and a high overvoltage for the evolution of oxygen in sulfuric- and nitric-acid-based electrolytes.

### ■ Quality Substrate Material

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

Standard 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.
Titanium (Ti)	Remainder	Remainder

### ■ Long Service Coating

Using state-of-the-art technology, the titanium base is taken to a high temperature ( $\geq 1200^{\circ}\text{C}$ ) in a vacuum sintering furnace ensuring total adhesion of the lead dioxide ( $\text{PbO}_2$ ) coating. Thus, the coating consumption rate is extremely low and uniform, measured in milligrams per ampere-year.

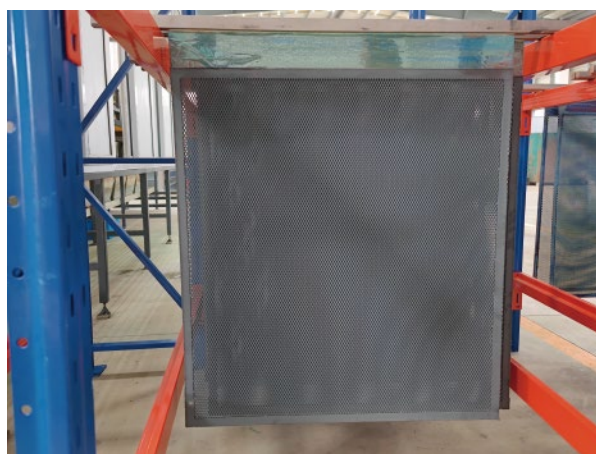
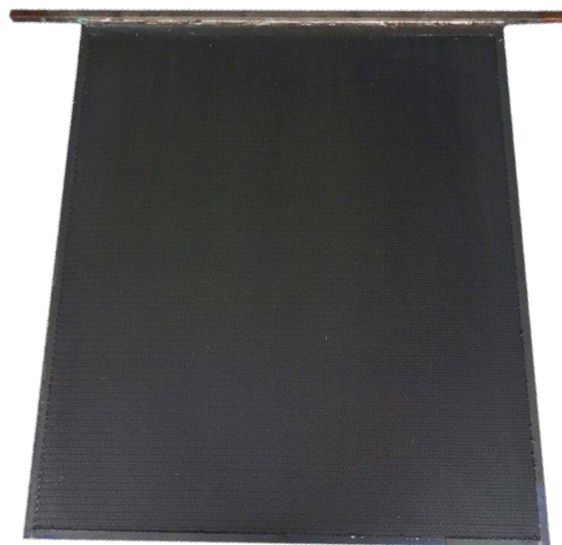
\* 500~1000  $\mu\text{m}$  coating thickness is available on request.

### ■ Excellent Corrosion Resistance

Our electrode is highly resistant to corrosion in various environments. It can be utilized in seawater, brackish water and other complex environments with the presence of oxygen evolution, chlorine evolution or a mixture of the two.

## APPLICATIONS

With its high oxygen evolution overvoltage, our lead dioxide coated titanium mesh electrode are popular used in sewage treatment. The waste water can be decomposed efficiently by anodic oxidation.



## WORKING ENVIRONMENT

Technical Parameters	Performance
Current Density	$\leq 5000 \text{ A/m}^2$
Operating Voltage	$\leq 24\text{V}$
pH Range	1~4
Temperature	$< 60^{\circ}\text{C}$





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