



## Lead Dioxide Electrode

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Titanium based lead dioxide ( $\text{Ti/PbO}_2$ ) is an electrode with several  $\text{PbO}_2$  layers on Ti substrate. Lead Dioxide Electrode is used as an anode material in electrochemistry.

YUXI  $\text{Ti/PbO}_2$  Electrode is with 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.

As its high oxygen evolution overvoltage, the  $\text{Ti/PbO}_2$  Electrode are popular used in wastewater cleaning, the organics etc. In waste water can be decomposed efficiently by anodic oxidation. When water electrolysis with this electrode, high concentration ozone can be generated. This electrode can also be utilized as an anode for electrolysis ozone evolution.

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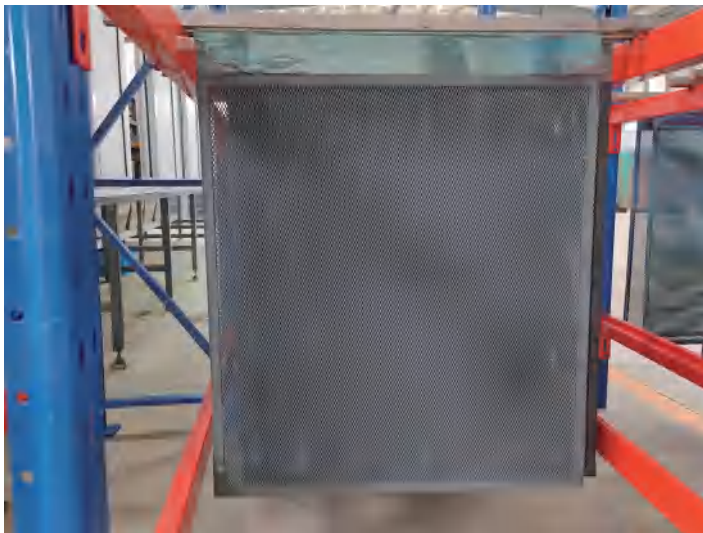
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- ▶ Chromium plating and hard chromium plating stronger acid solution
- ▶ Chromate treatment
- ▶ To make chromic acid, perchlorate and periodate
- ▶ Electrochemical oxidation synthetic organic compounds in acid solution
- ▶ Electrolysis recovery and extraction of nonferrous metals in stronger in stronger acid solution
- ▶ Water clarification by electrolytic oxidation

## FEATURES



- ▶ High electrical conductivity
- ▶ High potential oxygen evolution
- ▶ Stronger oxidation ability
- ▶ Good anti-corrosion
- ▶ Long lifetime
- ▶ High efficiency

## SPECIFICATIONS

Anode Type	Lead Dioxide Electrode
Material	Gr1 Titanium
Coating Type	$\beta\text{PbO}_2$
Dimension & Shape	Plate, mesh, rod or customized
Coating Thickness	500 ~ 1000 $\mu\text{m}$
Working Parameter	Current density $\leq 5,000\text{A}/\text{m}^2$ PH 1 ~ 4 Temperature $< 60^\circ\text{C}$