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PLATINODE®

MMO ANODES



Optimal Results with Perfect Price/Performance Ratio

Mixed metal oxide anodes (MMO) are dimensionally stable and suitable for a wide range of applications. The electrolytes can be alkaline-cyanide to strongly acidic.

MMO anodes persuade with a perfect price/performance ratio. They have a low oxygen over-voltage compared to other electrocatalytical surfaces. This results in less energy and minimized organic additive consumption. Customers benefit from significantly prolonged lifespans of the electrolyte.

A wide range of anode shapes is possible. Therefore, they can be optimally adapted to the design of the components, which shall be plated.

Due to their electrochemical characteristics the anodes are well suited in electroplating for metal deposition out of sensitive electrolytes and for water treatment.



Advantages

- Reduced consumption of organic additives
- High current densities possible
- Improved performance, prolonged lifetime of electrolytes
- Uniform layer thickness distribution
- No anode sludge, no anode maintenance

Applications

- Metal deposition out of sensitive electrolytes
- Water treatment

PLATINODE®

MMO ANODES

TECHNICAL SPECIFICATIONS

Fields of Application of Different MMO Anodes

| | |
|---|--------------|
| Ruthenium electrolytes, strongly acid | 177 |
| Platinum electrolytes, strongly acid | 177 |
| Rhodium electrolytes, strongly acid | 177 |
| Gold electrolytes, strongly acid | 177 |
| Gold electrolytes, weakly acid | 147 |
| Gold electrolytes, alkaline | 147 |
| Bronze electrolytes, cyanide-alkaline | 167 |
| Silver electrolytes, cyanide-alkaline | 167 |
| Acid copper | 187 SO, 177 |
| Halogen-containing electrolytes | 177 |
| Decorative CR3+ electrolytes | 187 LOC |
| Zinc/Zinc alloy electrolytes, alkaline | 177, 187 LOC |
| Pd electrolytes, Pd/Ni alloy electrolytes, ammoniacal | 187 SO |
| Pd/Ni alloy electrolytes ammonium-free, chloride-free | 187 SO |
| Nickel/nickel alloy electrolytes | 177, 187 LOC |
| Drinking water conditioning | 197 |
| Treatment of swimming pool water | 197 |

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Electroplating

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