

## Rod and Custom Shape Anodes for Cathodic Protection

Optimum Anode Technologies is recognized as a reliable quality supplier of dimensionally stable anodes with superior lead times and is a business affiliate of Titan Metal Fabricators. Optimum Anode Technologies combines the excellent reputation and manufacturing know-how of Titan Metal Fabricators, a leading supplier of titanium and other exotic metal fabrication, with the industry experience of Optimum Anode Technologies' management in the manufacturing of dimensionally stable anode coatings. Our industry experts have more than 25 years of experience in anode technology, manufacturing and market expertise in supplying cost effective products that meet or exceed our customers' dimensionally stable anode needs.



Optimum Anode Technologies' rod and custom shape anodes for cathodic protection are MMO (Mixed Metal Oxide) IrOxide™ Series coated titanium substrates. These rods and custom shape anodes consist of Iridium as the main constituent of the electrochemical catalyst, providing both excellent electrochemical catalytic activity and stability in a chlorine or oxygen evolving environment. The rods are frequently in seawater, brackish water, freshwater and coke breeze as well as other environments.

### Typical applications:

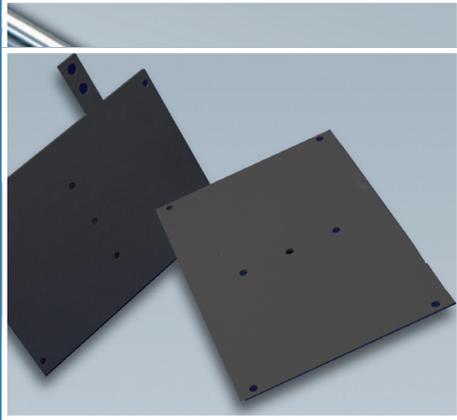
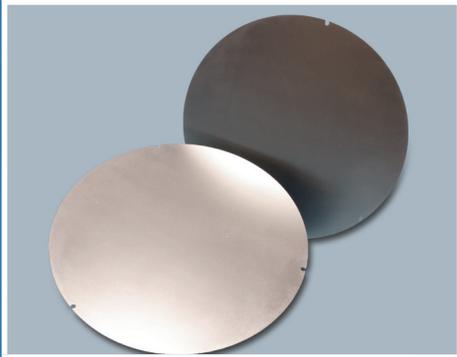
- Heat exchangers
- Water condenser boxes
- Jetties and piers
- Offshore structures
- Process vessels

Optimum Anode Technologies IrOxide™ coatings provide long stability and are custom tailored to our customers desired operating environment and life.

Optimum Anode Technologies' rod and custom shape anodes for cathodic protection are manufactured using a titanium substrate that is certified to be chemically pure grade 1 or 2 per the ASTM B348 specification.

Machined and fabricated to customers drawings and exact specification, in-house capabilities include CNC machining, drilling and boring, water jet cutting, shearing, forming and welding.

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## Rod Sizes:

- Available both in imperial and metric sizes.
- Imperial: .125" dia – 1.25" Single lengths up to 9ft.
- Metric: 3mm -50mm Single lengths up to 2.7 m.

## Custom shape anodes:

Custom manufactured to the customer's drawings and specifications.

## Quality:

- All orders are documented and kept with the order.
- Certificates of conformance are supplied upon request.
- Material certifications are verified and kept for future reference for all chemicals and titanium substrates.
- Titanium certifications from the mill are obtained and then verified via XRF PMI.
- Coating formulations are done in batches with all records of the batch kept and referenced to orders.
- Temperature records are computer recorded and kept with each batch.
- Coating loading verified: Via weight gain and XRF.
- Adhesion verified via: Tape test.
- Bend test carried on retention coupon which is made and retained for future reference with each batch.

The commitment of Optimum Anode Technologies' management is to provide our customers a quality product in a timely manner that meets or exceeds their technical and operational needs. We continually apply our unique fact finding and discovery consultative selling process to provide the most cost-effective solution for our customers.



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