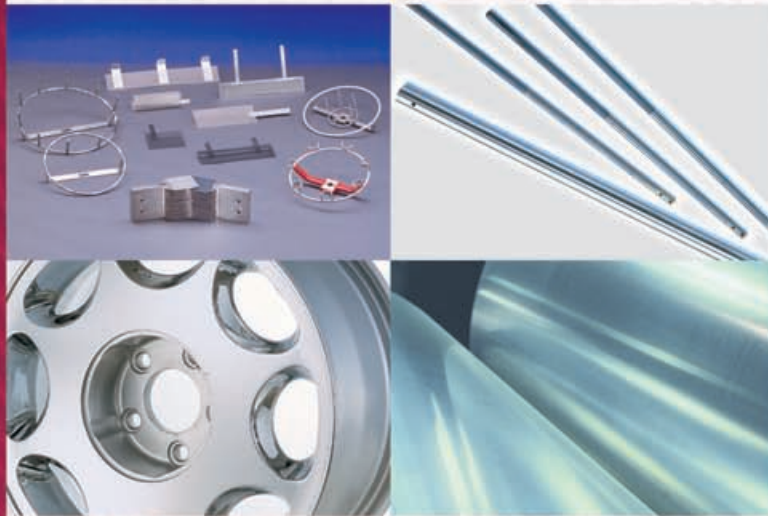


PurePlat™ Data Sheet

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.

The products offered include a full compliment of dimensionally stable anodes and include the following product family:

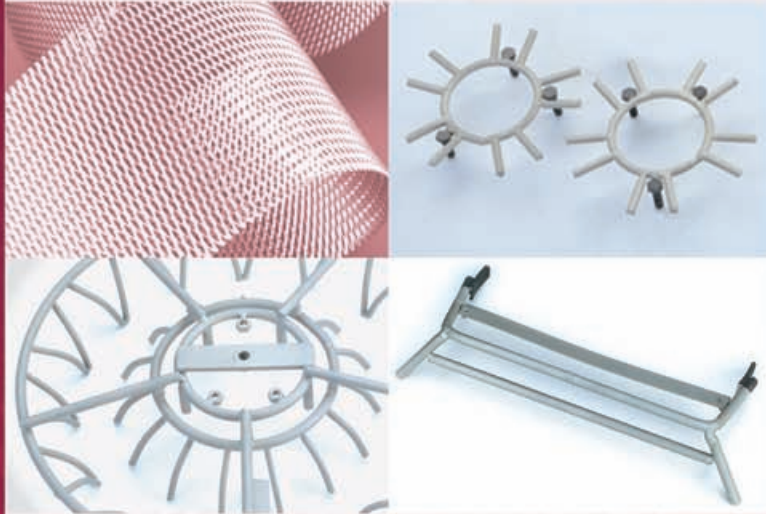
PurePlat™ - a pure platinum coating applied to titanium, niobium, tantalum as well as other exotic substrates. The major advantage of PurePlat™ is its electro-deposited or clad coated substrate, which is more cost-effective and mechanically superior to pure platinum structures. The other advantage is the ability of PurePlat™ to provide optimum performance by varying the surface morphology to create an application and process specific electrochemical characteristic.



Technical Attributes

PurePlat™ is a 99.95% pure platinum coating that is typically applied by electrodeposition but can also be applied via cladding or thermo-deposition.

- Typical deposit thicknesses: 20-300 micro-inches (1 - 6.5 microns).
- Typical support substrate: Titanium or Niobium but can also be applied to Tantalum, Zirconium, Copper, Stainless Steel and others.
- Surface preparation is done following carefully controlled procedures to ensure the maximum adhesion, the desired electrochemical properties and cosmetics.
- For certain specific applications proprietary post-treatments can be applied to provide further enhancements to the electrochemical properties and life characteristics.
- Quality is assured through in-process controls but also verified by final quality control that is inclusive of weight gain, XRF and or micro-derm measurements as well as process specific adhesion tests.
- All shipments are accompanied by Optimum Anode Technologies quality certificate and guarantee of workmanship.
- Packaging is specifically created to insure the product we produce arrives safely at our customers' point of use.



Typical Applications

- Precious Metal Plating
- Electrolytic Recovery
- Cathodic Protection
- Electrochlorination
- Electrophoresis
- Electrosynthesis of organic and inorganic compounds
- Electrodeposition
- Bio-pharmaceutical
- Analytical
- Electrodeionization
- Electrochemical oxidation and/or reduction

Available Shapes

- Mesh
- Sheet
- Rods
- Wire
- Custom fabricated parts

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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OAT-3001-R1