



Anodizing provides strength and protection for products exposed to rugged use and the outdoors

We offer superior anodizing in a wide range of colors and metal finishing in a variety of textures. Ask about having a sample of your product anodized at no charge.



We hold Class 3 and Class 7 Federal Firearms Licenses. We can perform anodizing and other metal finishing services on firearm components.

ANODIZE INC.
ANODIZE • MIRROR POLISH • LASER ETCH

Top quality anodizing that's done right the first time... every time.

Precision • Protection • Price



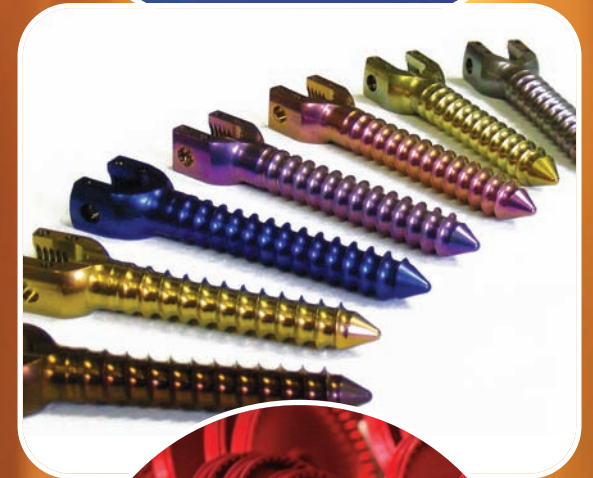
- ISO 9001:2008 Certified
- Medical & Surgical Grade
- High-Precision Specialists
- Aluminum & Titanium
- Military Spec Type II, IIB & III
- Hardcoat Anodizing
- Bright Dip Anodizing
- Passivation
- Teflon Impregnation
- Extreme Color Capabilities
- Ultrasonic Cleaning
- Mirror Polishing
- Vibratory Polishing
- Centrifugal Polishing
- Glass Beading
- Laser Etching

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www.anodizeinc.com



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Automotive, Marine, Medical, Military, Aerospace, Firearms, High Tech & More

Nobody does it better!

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Anodize Inc. Does It All

Automotive, marine, medical, military, aerospace, firearms, high tech parts and more... we are America's premier source for all aluminum and titanium anodizing needs. We anodize to exact specifications in a wide array of colors and in clear. We are **ISO 9001:2008 certified** and NADCAP compliant. We hold Class 3 and Class 7 Federal Firearms Licenses (FFL), so we can anodize and perform metal finishing services on firearm components.



All colors plus clear

Precision & Protection

Anodize Inc. offers the highest precision for Military Spec Anodizing, Type II & IIB Anodizing, Type III Hardcoat Anodizing and Bright Dip Anodizing. Conventional coatings are .0001" to .001" thick and are mostly transparent, but may be colored. Color can add new luster and eye-appeal to products, creating a beautiful jewel-like effect when combined with mirror polishing.



Precision is critical

Anodizing is not a simple process. In addition to special machinery, it requires a good knowledge of chemistry. The anodizing process employs electrolytic oxidation of a metal's surface to produce a protective oxide coating. Anodizing will protect aluminum and titanium objects by making their surface much harder. For aluminum, aluminum oxide is grown in to and out of the surface and then becomes aluminum hydrate, which is extremely hard and resistant to corrosion and abrasion.

Many Types of Anodizing

MIL-A-8625 ANODIZING

MIL-A-8625 is the military specification for six types and two classes of electrolytically formed anodic coatings on aluminum and aluminum alloys for non-architectural application.

TYPE II & IIB ANODIZING

Type II and IIB are conventional anodizing produced in a sulfuric acid bath. These methods are performed at room temperature and create an anodized layer of .0002" to .001", half of which is grown into the surface and half out of the surface. Anodized metal objects will become slightly larger by about .0005".

Type II & IIB Anodizing Advantages:

- Corrosion resistance comparable to stainless steel
- Increased surface hardness and scratch resistance
- Non-conductive up to 1000 Volts
- Aesthetics from many color choices
- Colors remain durable, vibrant and fade resistant
- An excellent base for a wide range of finishing options - clear coat, paint, graphic applications, etc.



Clear anodizing shines!

TYPE III HARDCOAT ANODIZING

Type III hardcoat anodizing is done in an electrolytic solution of sulfuric acid at approximately 32°F and a current density of 24 to 40 Amps per square foot. The process will run for 20 to 120 minutes depending on the alloy used and desired coating thickness that can reach .004".

Type III Anodizing Advantages:

- Corrosion resistance - passes 1000 HR 5% salt spray test
- Electrical insulation equivalent to glass or porcelain
- Prevents galvanic reaction - can be used with steel, copper, brass, etc.
- Extreme hardness - C60-C70 Rockwell scale
- High operating temperatures up to 932°F (500°C)
- Durability - 10 times more durable than unanodized aluminum
- Excellent lubricity - hardcoated parts may run against each other without lubrication in many applications

TEFLON IMPREGNATION:

During Type II, IIB & III anodizing processes, after an aluminum oxide layer is formed, immersion in a liquid Teflon bath is performed. Teflon impregnates the oxide layer for ultimate lubricity on parts in high stress or severe wear applications.

BRIGHT DIP ANODIZING

Bright Dip anodizing is a chemical process that brightens aluminum and does not leave deposits on the surface of the metal. Bright Dip produces a high lustrous finish. The degree of brightness is dependent on the type of alloy, as well as the surface finish of the object. Some alloys can attain a very reflective, mirror-type finish.

TITANIUM ANODIZING

Titanium anodizing provides the advantages of hardening and coloring the surface of titanium components without altering the surface properties of the metal, which makes parts suitable for biomedical applications. An entire range of colors can be produced using voltage and current density instead of dyes; therefore, the surface properties remain unchanged. The titanium anodize process combined with passivation produces medical implant grade cleanliness and corrosion resistance.

PASSIVATION

We offer both nitric and citric passivation for cleanliness and to remove any free iron particles from parts. This is especially critical for medical and microelectronic components.

Cleaning / Polishing / Laser Etching

Our finishing department offers services including ultrasonic cleaning, mirror polishing, vibratory polishing, centrifugal polishing, glass beading and laser etching.

MIRROR POLISHING

Mirror Polishing is required by medical equipment manufacturers and is essential for finishing surgical instruments. This process is the ultimate extra step that reduces the size of pores in metal, thereby minimizing the transmission of germs and other bodily residues by the instruments themselves. Mirror polishing is also used by many other manufacturers who require a high level of smoothness with a minimum amount of porosity. This process helps metal parts meet critical tolerances required in today's high-tech industries.



Mirror polishing is required for medical equipment and many other products

LASER ETCHING

Laser etching assures a lasting impression and increases brand identity. A company's logo, name and/or part number can be permanently laser-etched on every item produced. Laser etching is also used for LOT numbers to ensure lot traceability in applications such as medical devices and aerospace parts.

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