

BTR Plating Resources

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Products & Services

BTR-Plating Resources offers a wide-ranging variety of anodizing services with the expertise to anodize aluminum extrusions, die-castings, sheets and billets. Our staff of anodizing experts have extensive knowledge and experience anodizing fabricated parts and assemblies.

Anodizing is a method of coating aluminum and aluminum alloys for corrosion resistance, electrical insulation, thermal control, abrasion resistance, sealing, improving paint adhesion and decorative finishing. Anodizing consists of electrically depositing an oxide film from an aqueous solution onto the surface of the metal. Employing a sulfuric acid bath, dyes can be introduced into the oxidation process to achieve a colored surface. Aluminum thus anodized and colored is used in a wide variety of industrial parts.

BTR-Plating Resources has earned a reputation for outstanding quality and service by continuously searching for cost-effective, efficient and environmentally friendly processes to meet our customer's ever changing needs. [more info](#)



Whether your objective is cosmetic appearance, corrosion resistance or functionality it can be achieved by:

Anodizing

Bright dipping

Bright nickel chrome

Chromate conversion

E-coating

Electroless plating

Electroplating

Electropolishing

Gold plating

Hard Chrome

Liquid top coating

Nickel plating

Phosphate coating

Polymer coating

Powder coating

Silver plating

Tin plating

Zinc and zinc alloys

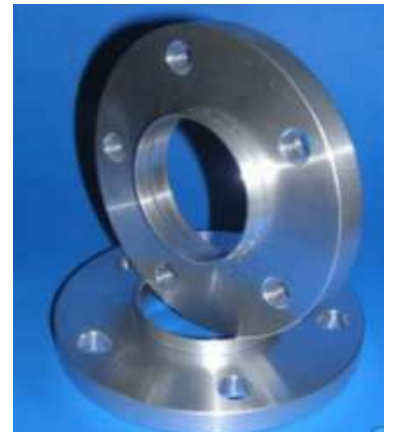
Typical Anodizing Coatings

⇒ **Clear and Color Anodizing** are processes used on aluminum and its alloys using dyes to color the anodic film. The anodic process produces a porous film which when fresh will absorb dyes. The anodizing is carried out using the sulfuric acid process. After the completion of the anodizing the work pieces are rinsed in cold water and placed in a dye solution. After dyeing, the work pieces are again rinsed in cold water followed by immersion in nearly boiling water. The heat seals the anodic film and the surface remains permanently colored.

⇒ **Hard Coat Anodizing** is a process that forms a very hard, dense, and relatively thick coating of aluminum oxide. This coating is particularly useful in applications requiring high wear resistance, in many cases outperforming hard chrome or electroless nickel. Hardcoat is often described as being "file hard", since it is difficult to scratch.

The Anodizing Advantage

- Excellent abrasion resistant qualities
- Good corrosion resistant properties
- Anodic thickness can be applied according to locality or end use of product
- The anodic film forms part of the aluminum and cannot 'flake, chip or peel'
- Electrolytic coloring processes, correctly applied have a lifespan in excess of 20 years, when exposed to the elements
- Different textures and finishes can be applied to the aluminum "prior" to anodizing. Since the anodic film is "transparent" the final surface texture/finish still remains visible. This can be useful in many applications.
- Anodizing is also cost effective, scratch resistant and available in varying film thicknesses.



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