

Custom Anodizing Aluminum from China

Specifications :

Price	Contact us
Place of Origin	China
Min.Order Quantity	1
Payment Terms	L/C,D/P,T/T
Supply Ability	1000
Delivery Detail	3-7
Packaging Details	Wooden case or wooden pellets depended on clients' requireme

Detail Introduction :

Aluminum anodizing is a process that strengthens and protects aluminum surfaces, enhancing both durability and appearance. Here's how the process works:

Electrolyte Solution: An aluminum object is submerged in an electrolyte solution, usually sulfuric acid, which helps form a porous and absorbent oxide layer ideal for coloring.

Electric Current: Direct current (DC) is passed through the solution to create the anodic layer. The thickness and characteristics of the layer depend on the voltage applied.

Temperature: The electrolyte solution is kept at low temperatures (32°F–68°F or 0°C–20°C) for better control over the oxide layer's formation.

Time: The longer the aluminum remains in the solution, the thicker the oxide layer, but excessive time can impact the final product's dimensions and appearance.

Aluminum Alloy: Different aluminum alloys react differently to anodizing, affecting color and surface brightness.

Benefits of Aluminum Anodizing:

Enhanced Durability: The anodized layer provides extra protection against wear and tear.

Corrosion Resistance: The process prevents oxidation, allowing the aluminum to resist harsh environmental conditions.

Aesthetic Variety: Anodized aluminum can be dyed in various colors, offering a sleek matte finish.

Electrical Insulation: Anodized surfaces work well in electrical applications due to their insulating properties.

Low Maintenance: Regular cleaning requires only mild detergents, keeping the surface looking fresh.

Eco-Friendly: The process is environmentally safe, and anodized aluminum is recyclable.