

## THE PROCESS

The bright dip process chemically polishes raw aluminum by leveling the microscopic roughness of the aluminum surface and increasing its specularity. Approximately .0002" of material is removed by this process.

(NOTE: The bright dip process will not remove surface scratches, rolling marks or die lines. These defects must be mechanically removed with a buffing operations for an entirely defect free finish.)

After aluminum is bright dipped, it can be anodized clear or dyed to a variety of colors. At this point, the anodized aluminum is not only bright, but also protected from corrosion, scratching, and fading by the anodizing process.

Common products acquiring this bright dipped anodized surface include decorative trims, light frames, bike frames, shower doors, carpet molding and reflectors. Pioneer Metal Finishing can also help you create custom cosmetic designs.

## THE EFFECTS

The brightness and smoothness of finished parts is dependent upon the metallurgy of the aluminum itself.

The metallurgical factors affecting the level of brightness and absence of pitting are the amount and condition of impurities, types of alloying elements, and the crystalline grain structure of the aluminum.

The 2000 series and cast aluminum are not recommended for this process.

## THE OVERVIEW

### BRIGHT DIP ANODIZING

Bright dip is an effective alternative to mechanical polishing, producing similar brightness at a fraction of the cost. For over 50 years America has recognized Pioneer as the leading bright dip and cosmetic anodizing provider.

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### RECEPTIVE METALS

Aluminum Alloys

5357, 5457, 5557, 6063, 6463, 7016 and 7029 are most suitable for this process.

In general, a harder temper of an alloy produces the brightest work

### THICKNESS

.0001-.0007"

### MAX PART SIZE

152" X 52" x 28"

### SPECIFICATIONS

MIL-A-8625 Type II (Class 1 & 2)

### PERFORMANCE BENEFITS

Provides Reflective Finishes Incredible Aesthetic Appeal Ability to Finish Complex Part Shapes



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