

Hardcoat Anodizing

Hardcoat anodizing, commonly referred to as Type III anodizing, is formed by using an electrolytic solution of sulfuric acid at approximately 32°F (0°C) and a current density of 23 to 37 Amps per square foot. The process will run for 20 to 120 minutes depending on the alloy used and the desired coating thickness. This will produce a generally gray coating 10µm to 50µm thick with 50% buildup and 50% penetration.

Properties

Hardcoat anodizing provides several desirable qualities including:

- Corrosion resistance (336+ Hours salt spray resistance per ASTM B117)
- High durability (file hard, 60-70 on Rockwell C-scale)
- Electrical insulation (800 V / mil thickness)

Anodized finishes are available on aluminum poles only.



Note: *There is a noticeable difference in the appearance of the finish of the pole shaft and the cast base and cast hand hole reinforcing ring (see image below). If the color variation is objectionable and an anodized finish is required we can provide paint over anodized finish.*