

Process	Description	Specifications	Colors	Minimum
<p>Anodize</p>	<p>Anodic coating improves the surface corrosion protection of aluminum under sever service conditions. This coating also serves as a base for paint. Anodic coatings provide better corrosion protection than chromate chemical conversion coatings.</p> <p>Hard anodic coatings improve wear and abrasion resistance of aluminum alloys. Dyeing and/or sealing are not recommended unless corrosion resistance is not required. These steps reduce wear resistance of hard coat.</p>	<p>Mil-A-8625; Type 2 (Sulfuric) Class 1 - Undyed Class 1 - Dyed</p> <p>Mil-A-8625; Type 3 (Hard Sulfuric) Class 1 - Undyed Class 2 - Dyed</p> <p>MIL-S-5002 MIL-STD 171 AMS-2471, S472 ASTM 2468, 2469</p>	<p>Clear Black Red Green Gold Blue Brown Grey Yellow Violet Turquoise Olive Drab</p>	<p>Type 2, Dyed or Undyed \$45</p> <p>Type 3, Dyed or Undyed \$65</p> <p>Sodium Dichromate Seal \$30</p>
<p>Titanium Anodize</p>	<p>Decorative coloring and color-coding of titanium metals</p>		<p>Many shades of gold, blue, red and green.</p>	<p>\$50</p>
<p>Chemical Conversion Coating (Chem Film)</p>	<p>The Class 1A coating provides corrosion protection for aluminum and aluminum alloys when left unpainted. The coating also improves adhesion of paint finish systems.</p> <p>The Class 3 coating provides corrosion protection for electrical and electronic applications, where lower electrical resistance contacts are required. The Class 3 coating is thinner than the 1A coating, and therefore more susceptible to corrosion.</p>	<p>MIL-C-5541; Class 1A, Class 3 MIL-STD-171 AMS 2473, 2474</p>	<p>Gold</p>	<p>\$45</p>
<p>Passivation</p>	<p>Passivation improves the corrosion resistance of parts made from 200, 300 and 400 series and precipitation-hardened corrosion-resistant steels by removing soils and free iron.</p> <p>Passivation does not remove heat treat scale. It is usually removed by glass bead blasting. It can also be removed chemically when dimensional loss is not important.</p> <p>44-C material is not normally passivated. Cleaning by mechanical methods is recommended</p>	<p>AMS2700 AMS-QQ-P-35 AMSTM A967 ASTM A380 MIL-S-5002 MIL-STD 171</p>		<p>Passivation \$45</p> <p>Optional Lab Test \$25</p> <p>Optional Lab Report \$10</p>
<p>Penetrant Inspection</p>	<p>Penetrant inspection detects discontinuities open to the surface, such as cracks, cold shuts, laps, and porosity, which may be harmful to the part of basic material.</p>	<p>MIL-STD 6866 ASTM E14517</p> <p>Type 1, Methods A and C Sensitivity Levels 1, 2 and 3</p>		<p>\$60</p>
<p>Laser Engraving</p>	<p>Laser engraving provides precision marking on aluminum, steels, and plastic. Engraving is commonly used for part number identification and complex artwork on faceplates. Engraving on aluminum removes the anodize color, leaving white images on a colored background. Engraving on steels provides black characters.</p>			<p>\$50</p> <p>One time set up fee \$40</p>
<p>Selective Masking</p>	<p>Masking protects selected areas from plating or surface treatments</p>			<p>\$35</p>