



Able Electropolishing Co., Inc.

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#1084 Brite Ultrafinishing/ Brite Passivation

Industry: Medical/Dental

Mfg/ Method: Machining and brazing

Alloy: Exotic - Nickel Silver

Problem: The customer needed a process to remove the residual flux and discoloration created during the brazing operation. The part is a medical electronic component that makes contact with human skin. A clean and passive finish was desired to maintain the appearance and corrosion resistance after repeated autoclave sterilization.

Solution: The electropolishing process proved to be beneficial in a number of areas. We were successful in removing the residual flux and discoloration from the brazing operation. The part was left with a chrome-like decorative appearance. As a result of removing the contaminants and particulate with electropolishing, our customer was surprised to learn that their conductivity within the part improved six fold. In addition, by producing a clean and passive finish, the corrosion resistance was greatly improved extending the life of their part.

Note to Engineer: *We have significant experience in improving conductivity on a host of alloys. Normal fabrication methods, especially brazing operations leave a host of surface scale or burned lubricants on the surface. Through proper processing, these non-conductive contaminants are removed along with imbedded impurities, improving conductivity. A flatter less porous surface microscopically offers better electrical contact as well. We encourage sampling through our sales engineering staff.*

Before



Brazed Area



After