

#1014 - Ultraclean and Micro Deburring for a Clean Room Environment

INDUSTRY:

Electronic/Communication - Manufacturer of laminar flow work stations and clean rooms

MFG/METHOD:

Chemical etching

ALLOY:

302 stainless steel

PROBLEM:

The client chemically etches thin, complexly shaped components. This material can be as thin as .008" and shaped so intricately that mechanical stainless steel polishing and hand-deburring are prohibitively impractical. The part must be chemically cleaned and burr-free, as it is used in a clean room assembly. It must also be handled carefully to prevent damage or distortion.



SOLUTION:

By electropolishing the part, we were able to control the amount of surface material removed. This electrochemical polishing treatment affects the entire part uniformly, allowing us to treat even intricate and delicate designs. Stainless steel electropolishing gave the part a comprehensive deburring, providing a highly clean, contaminant-free and passivated surface. Able Electropolishing then handled and packaged the parts carefully to prevent and damage or distortion.

Note to Engineer: At Able Electropolishing, we handle extremely delicate and complex parts for a variety of industries, and can recommend packaging or shipping methods to assure safe handling. For more details, please send us a sample part for evaluation.