



Able Electropolishing Co.
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Chicago IL 60623
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#1018 - Decorative and Brite Ultraclean

Industry: Aerospace

Mfg/Method: Assembly/Machined

Alloy: 304L stainless steel, molybdenum & glass

Problem: The 'Hermetic Assembly' which is made of 304L stainless steel 'body' and a molybdenum 'pin'. They are glass fused in an oven. The glass baking operation created a green oxide layer, which needed to be removed. The 'Hermetic Assembly' is subjected to a variety of tests to detect leaking and sealing breakdown. The 'Hermetic Assembly' is part of a critical aerospace battery component.

Solution: Electropolishing the 'Hermetic Assembly' provided an oxide free, Brite Ultraclean surface. Able® Electropolishing has a long history of success removing the discoloration from the glass to metal seal. The electropolished 'Hermetic Assemblies' were subjected to stringent leakage mass spectrometer testing. Able Electropolishing passed all testing.

Note to engineer: *Critical assemblies especially of dissimilar metals requires close examination. We can provide guidance on assuring the integrity of fitted components if you could provide a sample part or blueprint.*



Before



After