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## Unique manufacturing process solves metalized sapphire windows problem

### **P**roblem

A manufacturer of medical endoscopes needed metalized sapphire windows with extremely smooth optically polished faces to allow for hermetic sealing into a Nickel 200 tube that was brazed to the sapphire.

### **S**olution

Insaco recommended a unique manufacturing process at Insaco which would improve the overall quality of the sapphire window while allowing for improved hermetic sealing in order to autoclave the endoscope.

### **R**esult

The manufacturing changes in the orientation of the sapphire window allowed for creating a strong hermetic seal which further enhanced the ability to autoclave the endoscope resulting in a 35% increase in overall yield on the final brazed sub-assembly.

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