

Performance Anodic Coating with Embedded Graphic Printing

Hillock Anodizing's Performance Anodic Coating with Embedded Graphics (i.e. Graphic Anodizing) is a synergistic coating/printing process that results in permanent, scratch resistant images printed directly into the pores of the anodic coating. Because the ink is absorbed into the alumina the Embedded Graphics can never delaminate or chip and the only way to remove the image is to strip the entire anodic coating. This process differs from conventional printing processes (ex: epoxy ink per ES0107) where the graphics are printed on top of the anodic coating and adhesion is not guaranteed.

Topcoat (Epoxy Ink)
Printing Failure
Before Wash



After Wash (failure)

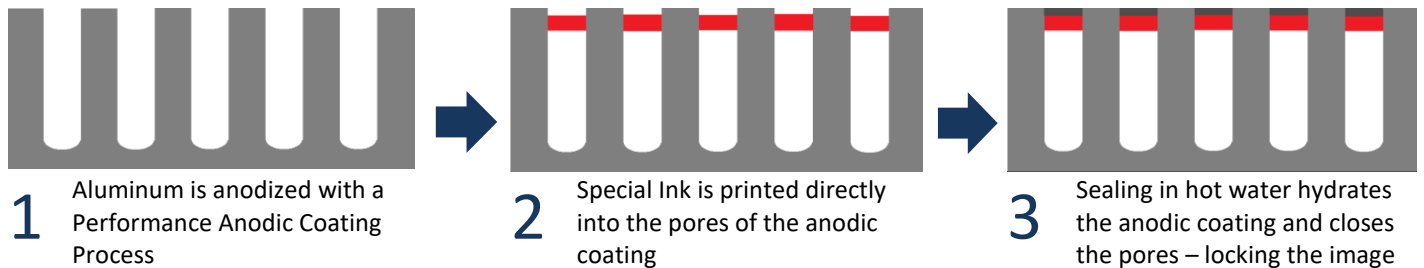


Need increased corrosion resistance to alkaline disinfectant washes?
Embedded Graphics can be used in conjunction with the following Hillock Performance Anodic Coatings:

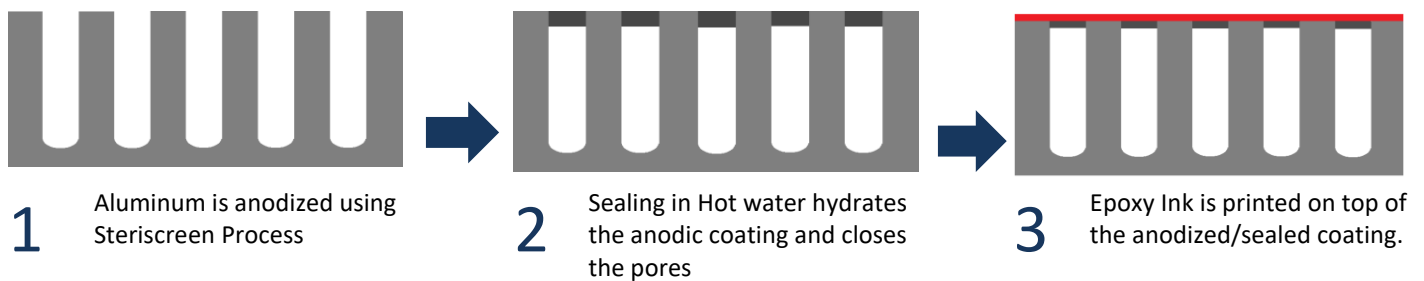
- STERI-X
- Steridize
- Stericlave

Process Comparison

Performance Anodic Coating with Embedded Graphics (Graphic Anodizing)



Conventional Printing - Steriscreen Anodize with Epoxy Ink Print



Biocompatibility

All of Hillock Anodizing's Performance Anodic Coatings (STERI-X, Steriscreen, Stericlave, and Steridize) are RoHS compliant and conform to the requirements of MIL-A-8625 and ES0060. The colorants and inks are of the organic azo dye family which are considered standard to all MIL SPEC and Medical OEM specifications.

Validation

Hillock Anodizing's Performance Anodic Coating with Embedded Graphic Process is Validated! See list below of other validated Processes:

<i>Stericlave</i>	<i>Steriscreen</i>	<i>Topcoat (Epoxy) Printing</i>	<i>Embedded Graphics Printing</i>	<i>MIL-Spec Hardcoat</i>
VAL-1035	VAL-1038	VAL-1039	VAL-1040	VAL-1032, VAL-1036