Passivation

While not offering all of the benefits of electropolishing, passivation will improve the corrosion resistance of stainless steel. The presence of exogenous surface contamination may disrupt the formation of stainless steels' naturally corrosion resistant surface layer. Surface contaminants, including grease, dirt, and iron, are inherent to the metal fabrication process. During a chemical passivation treatment, the surface of a part is chemically treated by a mild oxidant. The process will remove free iron and other foreign contaminants and promote the formation of a chromium rich corrosion resistant layer.

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