

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1997

DateRun: 07/23/1997

Experimenters: Jason Marshall

ClientType: Manufacturers of Surgical Tools and Equipments

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Part

Contaminants:

Cleaning Methods: Immersion/Soak

Analytical Methods: Microphotography

Purpose: To compare Alcohol, Passivation, Plasma cleaning

Experimental Procedure: One part from each group was selected to be photographed using a micro-camera. Two different locations on each part were chosen. The pictures were then compared visually to determine which cleaning method appeared to work the best.
The cleaning methods were:
Group #1 Alcohol
Group #2 Passivated
Group #3 Plasma.
Part selection was based on similarity to parts in the other groups in order to obtain meaningful results.
SUBSTRATE MATERIAL: Stainless Steel 455
CONTAMINANTS: unknown

Results: From the initial photograph of each group, visual inspection led to the belief that group number two was the cleanest followed by group three and lastly by group one. After reviewing the second set of pictures, the same observations were made. To further clarify the superior cleaning method, a photograph was taken of the parts from group two and three. The two parts were placed side-by-side. This picture also showed that group two looked cleaner than group three.
See picture sets A, B and C.

Summary:

Conclusion: From the pictures taken, group number two appeared to be the cleanest looking parts.