

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007

DateRun: 08/14/2007

Experimenters: Jason Marshall, Heidi Wilcox

ClientType: Aerospace Industry

ProjectNumber: Project #1

Substrates: Gold, Stainless Steel

PartType: Part

Contaminants: Oil

Cleaning Methods: Ultrasonics

Analytical Methods: Visual

Purpose: To find a cleaner that will remove the diesel fuel from the inside of the supplied part

Experimental Procedure: Four products were selected from the lab's on-line database, www.cleansolutions.org, based on client supplied information about soil and surface materials. Each product was heated to 130 F on a hot plate. Solutions were used in a 1000 ml beaker and immersed into a Branson 3510 ultrasonic unit and degassed for at least 5 minutes. Cleaning of the part was conducted in 5-minute intervals. Observations were made after the cleaning time to determine the success of the product. If the product was unsuccessful, the next cleaning solution was used.

Results: Two of the products were successful in removing most of the diesel exhaust "char" from the inner portion of the supplied part.

Summary:

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|----------------------|-----------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Gold, Stainless Steel | | | | |
| Contaminants: | Oil | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Kyzen Corporation | Ionox HC 2 | 100 | | <input type="checkbox"/> | |
| Bio Chem Systems | Solsafe 245 | 100 | | <input type="checkbox"/> | |
| AGA Chemical | AK 225 | 100 | | <input checked="" type="checkbox"/> | |
| Poly Systems USA Inc | Solvon Kreussler PB | 100 | | <input checked="" type="checkbox"/> | |

Conclusion: Additional cleaning was not conducted so that the part would not become damaged. Part needs to be inspected by client to determine if it is as clean as it needs to be.