

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999

DateRun: 08/04/1999

Experimenters: Nicole Vayo

ClientType: Lab

ProjectNumber: Project #1

Substrates: Brass, Copper, Nickel, Stainless Steel

PartType: Coupon

Contaminants: Fluxes, Lubricating/Lapping Oils

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: One product was diluted to 10% and a second was used at 100%. Both were used at room temperature. Stainless steel coupons were coated with a lubricant (64742-47-8, 9003-29-6) and a flux.

Results: NAB broke up oil immediately, but didn't pull off it off the coupon easily.

| Summary:                      | <b>Substrates:</b> Brass, Copper, Nickel, Stainless Steel |               |        |             |                                     |                 |
|-------------------------------|---|---------------|--------|-------------|-------------------------------------|-----------------|
|                               | <b>Contaminants:</b> Fluxes, Lubricating/Lapping Oils     |               |        |             |                                     |                 |
| Company Name:                 |   | Product Name: | Conc.: | Efficiency: | Effective:                          | Observations:   |
| International Bio System      |   | Bio Z         | 10     | 13.30       | <input type="checkbox"/>            | c,oating, brass |
| International Bio System      |   | Bio Z         | 10     | 16.10       | <input type="checkbox"/>            | ink, coating    |
| International Bio System      |   | Bio Z         | 10     | 64.60       | <input type="checkbox"/>            | oil, ss         |
| North Atlantic Bio Industries |   | NAB 9000      | 10     | 19.10       | <input type="checkbox"/>            | coating, brass  |
| North Atlantic Bio Industries |   | NAB 9000      | 10     | 16.80       | <input type="checkbox"/>            | ink, nickel     |
| North Atlantic Bio Industries |   | NAB 9000      | 10     | 88.00       | <input checked="" type="checkbox"/> | oil, ss         |

Conclusion: Success on the lubricant.