

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2015  
 DateRun: 12/01/2015  
 Experimenters: Rhoda Gindi  
 ClientType: General  
 ProjectNumber: Project #1  
 Substrates: Brass  
 PartType: Part  
 Contaminants: Dirt, Oil  
 Cleaning Methods: Immersion/Soak  
 Analytical Methods: Gravimetric

Purpose: To evaluate the efficacy of cleaners in removing oil and dirt from brass coupons

Experimental Procedure: For the additional three cleaners, the coupons were placed in an unheated bath for 30 minutes. Visual observation and re-weighing of contaminate removal were recorded.

Results:

| Cleaner          | Initial Wt. | Final Wt. | % Removed |
|------------------|-------------|-----------|-----------|
| FluoSolv CX      | 0.5097      | 0.0032    | 99.37     |
|                  | 0.4607      | 0.0003    | 99.93     |
|                  | 0.5534      | 0.0056    | 98.98     |
| FluoSolv NC      | 0.5288      | 0.0044    | 99.16     |
|                  | 0.4204      | 0.0044    | 98.95     |
|                  | 0.5135      | 0.0044    | 99.14     |
| Surfasolve Strip | 0.5671      | 0.1755    | 69.05     |
|                  | 0.5722      | 0.1322    | 76.89     |
|                  | 0.4167      | 0.0761    | 81.73     |

Summary:

| <b>Substrates:</b>             | Brass            |        |             |                                     |               |
|--------------------------------|------------------|--------|-------------|-------------------------------------|---------------|
| <b>Contaminants:</b>           | Dirt, Oil        |        |             |                                     |               |
| Company Name:                  | Product Name:    | Conc.: | Efficiency: | Effective:                          | Observations: |
| NuGeneration Technologies, LLC | FluoSolv CX      | 100    | 99.43       | <input checked="" type="checkbox"/> |               |
| NuGeneration Technologies, LLC | FluoSolv NC 786  | 100    | 99.08       | <input checked="" type="checkbox"/> |               |
| 21 st. Century Chemical Inc.   | Surfasolve Strip | 100    | 75.89       | <input type="checkbox"/>            |               |

Conclusion: Based on the results, The FluoSolv CX products has a 99% oil removal.