

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 04/01/2016

Experimenters:

ClientType:

ProjectNumber: Project #1

Substrates: Brass

PartType: Coupon

Contaminants: Greases

Cleaning Methods:

Analytical Methods: Gravimetric

Purpose: To evaluate the efficiency of various heated drop in solvent replacements removing DOW Corning Vacuum Grease from Brass substrates .

Experimental Procedure: Brass coupons were weighed to get their initial weights. The bottom third of each coupon was coated in the DOW Corning Vacuum Grease. The coupons were re-weighed. The weights were recorded. The coupons were placed in the heated drop-in solvent replacement for 5 minutes. The coupons were removed out of the and placed to dry on a rack for 15 minutes. Then the final weights were taken

| | | | | |
|----------|-----------------|---------------------|-------------------|---------------|
| Results: | Cleaner | Initial wt of cont. | Final wt of cont. | %Cont Removed |
| | Ethyl 408 | 0.3854 | 0.0009 | 99.77 |
| | | 0.4544 | 0.0186 | 95.91 |
| | | 0.2871 | 0.1209 | 57.89 |
| | Methyl 408 | 0.1771 | 0.1727 | 2.48 |
| | | 0.2522 | 0.2358 | 6.50 |
| | | 0.2483 | 0.2445 | 1.53 |
| | FluoSolv CX | 0.5698 | 0.0901 | 84.19 |
| | | 0.4882 | 0.0060 | 98.77 |
| | | 0.4578 | 0.0117 | 97.44 |
| | FluoSolv NC | 0.0961 | 0.0016 | 98.34 |
| | | 0.1367 | 0.0028 | 97.95 |
| | | 0.2385 | 0.0485 | 79.66 |
| | Honeywell PF | 0.1645 | 0.1014 | 38.36 |
| | | 0.2101 | 0.1208 | 42.50 |
| | | 0.1780 | 0.0537 | 69.83 |
| | Honeywell PF 2A | 0.1797 | 0.0156 | 91.32 |
| | | 0.1764 | 0.0356 | 79.82 |
| | | 0.2446 | 0.0613 | 74.94 |
| | Vertrel Sion | 0.4411 | 0.0073 | 98.35 |
| | | 0.3979 | 0.0100 | 97.49 |
| | | 0.5948 | 0.0947 | 84.08 |
| | Fluosolv CX-500 | 1.5110 | 1.4324 | 5.20 |
| | | 1.1868 | 1.1520 | 2.93 |
| | | 1.3785 | 1.3152 | 4.59 |
| | Fluosolv FR-110 | 0.4061 | 0.3765 | 7.29 |
| | | 0.4904 | 0.4217 | 14.01 |
| | | 0.3592 | 0.3395 | 5.48 |

Summary:

| | | | | | | |
|----------------------|----------------------|---------------|--------------------|--------------------------|----------------------|--|
| Substrates: | Brass | | | | | |
| Contaminants: | Greases | | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |
| Xf Technologies | Ethyl 408 | 100 | 84.52 | <input type="checkbox"/> | | |

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|--------------------------------|------------------------|-----|-------|-------------------------------------|--|
| Xf Technologies | Methyl 408 | 100 | 3.51 | <input type="checkbox"/> | |
| NuGeneration Technologies, LLC | FluoSolv CX | 100 | 93.47 | <input checked="" type="checkbox"/> | |
| NuGeneration Technologies, LLC | FluoSolv NC 786 | 100 | 91.98 | <input checked="" type="checkbox"/> | |
| Honeywell | Solstice PF with N2 | 100 | 50.23 | <input type="checkbox"/> | |
| Honeywell | Solstice PF-2A with N2 | 100 | 82.03 | <input type="checkbox"/> | |
| DuPont | Vertrel Sion | 100 | 93.30 | <input checked="" type="checkbox"/> | |
| NuGeneration Technologies, LLC | FluoSolv CX-500 | 100 | 42.40 | <input type="checkbox"/> | |
| NuGeneration Technologies, LLC | Fluosolv FR-100 | 100 | 89.20 | <input type="checkbox"/> | |

Conclusion: