

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016

DateRun: 03/25/2016

Experimenters:

ClientType:

ProjectNumber: Project #1

Substrates: Brass

PartType: Part

Contaminants: Greases

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate the efficiency of various heated drop in solvent replacement in removing Momeptive Grease from Brass.

Experimental Procedure: Brass coupons were weighed to get their initial weights. The bottom third of each coupon was coated in the Momeptive 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 cleaning solution and placed to dry on a rack for 15 minutes. Then the final weights were taken and recorded.

Results:

| Cleaner | Initial wt of cont. | Final wt of cont. | %Cont Removed |
|-----------------|---------------------|-------------------|---------------|
| Ethyl 408 | 0.1908 | 0.2020 | -5.87 |
| | 0.1552 | 0.1623 | -4.57 |
| | 0.1479 | 0.1566 | -5.88 |
| Methyl 408 | 0.1358 | 0.1368 | -0.74 |
| | 0.1055 | 0.1066 | -1.04 |
| | 0.1244 | 0.1252 | -0.64 |
| FluoSolv CX | 0.1023 | 0.0287 | 71.95 |
| | 0.0962 | 0.0258 | 73.18 |
| | 0.1043 | 0.0489 | 53.12 |
| FluoSolv NC | 0.1358 | 0.0610 | 55.08 |
| | 0.1116 | 0.0382 | 65.77 |
| | 0.1006 | 0.0481 | 52.19 |
| Honeywell PF | 0.1800 | 0.0699 | 61.17 |
| | 0.1248 | 0.0643 | 48.48 |
| | 0.1412 | 0.0723 | 48.8 |
| Honeywell PF 2A | 0.1350 | 0.0694 | 48.59 |
| | 0.1475 | 0.0776 | 47.39 |
| | 0.1061 | 0.0617 | 41.85 |
| Vertrel Sion | 0.1859 | 0.0047 | 97.47 |
| | 0.1792 | 0.0286 | 84.04 |
| | 0.3030 | 0.0709 | 76.6 |
| Fluosolv CX-500 | 0.8387 | 0.8123 | 3.15 |
| | 0.7091 | 0.6861 | 3.24 |
| | 0.7496 | 0.7184 | 4.16 |
| Fluosolv FR-110 | 0.4448 | 0.4192 | 5.76 |
| | 0.3955 | 0.3733 | 5.61 |
| | 0.3778 | 0.3513 | 7.01 |

Summary:

| | | | | | | |
|----------------------|----------------------|---------------|--------------------|-------------------|----------------------|--|
| Substrates: | Brass | | | | | |
| Contaminants: | Greases | | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |

CLEANING LABORATORY EVALUATION SUMMARY

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|--------------------------------|------------------------|-----|-------|-------------------------------------|--|
| Xf Technologies | Ethyl 408 | 100 | -5.44 | <input type="checkbox"/> | |
| Xf Technologies | Methyl 408 | 100 | -0.81 | <input type="checkbox"/> | |
| NuGeneration Technologies, LLC | FluoSolv CX | 100 | 66.08 | <input type="checkbox"/> | |
| NuGeneration Technologies, LLC | FluoSolv NC 786 | 100 | 57.68 | <input type="checkbox"/> | |
| Honeywell | Solstice PF with N2 | 100 | 52.81 | <input type="checkbox"/> | |
| Honeywell | Solstice PF-2A with N2 | 100 | 45.94 | <input type="checkbox"/> | |
| DuPont | Vertrel Sion | 100 | 86.04 | <input checked="" type="checkbox"/> | |
| NuGeneration Technologies, LLC | FluoSolv CX-500 | 100 | 3.51 | <input type="checkbox"/> | |
| NuGeneration Technologies, LLC | Fluosolv FR-100 | 100 | 6.12 | <input type="checkbox"/> | |

Conclusion: