

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2015

DateRun: 06/11/2015

Experimenters: Alicia Melvin

ClientType: Chemical Company

ProjectNumber: Project #1

Substrates: Textile

PartType: Coupon

Contaminants: Inks, Fingerprints, Food

Cleaning Methods: Immersion/Soak

Analytical Methods: Visual

Purpose: To evaluate Methyl 408 and Ethyl 408 on their removal effectiveness for dry cleaning applications

Experimental Procedure: Four soils typically found in dry cleaning were applied to three fabric types (cotton, cotton/polyester blend, nylon) and then cleaned using immersion and manual cleaning.

Results: Methyl 408 and Ethyl 408 are excellent at removing stains from nylon fabric. Both chemicals made the stains worse with grass-stained cotton. Methyl 408 removed most of the grass and ink stains from polyester. Overall, these chemicals are effective at nylon and polyester dry cleaning when immersed. Adding agitation and scrubbing may improve the dry-cleaning quality of these chemicals.

| Cleaning Category | Dry-cleaning | | | | | | | |
|-------------------|--------------|------|-------|-------|-----------|------|-------|-------|
| Chemical | Methyl 408 | | | | Ethyl 408 | | | |
| Soil type | Ink | Food | Sebum | Grass | Ink | Food | Sebum | Grass |
| Substrate | | | | | | | | |
| Polyester | ME | SE | VE | ME | ME | ME | ME | SE |
| Nylon | VE | ME | VE | ME | VE | VE | VE | ME |
| Cotton | SE | ME | VE | NE | ME | SE | VE | SE |

NE - Not effective
SE - Slightly effective
ME - Mostly effective
VE - Very effective

Summary:

| | | | | | |
|----------------------|--------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Textile | | | | |
| Contaminants: | Inks, Fingerprints, Food | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Xf Technologies | Methyl 408 | 100 | | <input checked="" type="checkbox"/> | |
| Xf Technologies | Ethyl 408 | 100 | | <input checked="" type="checkbox"/> | |

Conclusion: Overall, these chemicals are effective at nylon and polyester dry cleaning when immersed.