

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 03/22/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Cutting/Tapping Fluids

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning.  
Cleaning: 5 min. immersion cleaning at 120 F with stir bar agitation. (all the organic cleaners were run at room temperature)  
Oil - Winfield Brooks Alumtap (64742-53-6, 127-18-6, 111-63-7)

Results: Observations: The coupons cleaned with perfluorosolve PFS 1 had cleaner on them even after rinsing. This cleaner was used by spraying as there was not enough cleaner to immerse the coupons completely. The cleaner Westech CT-4721 reacted with aluminum coupons violently and hence were removed after 30 sec.

## Summary:

|                      |                       |                        |                    |                                     |                               |
|----------------------|-----------------------|------------------------|--------------------|-------------------------------------|-------------------------------|
| <b>Substrates:</b>   |                       | Aluminum               |                    |                                     |                               |
| <b>Contaminants:</b> |                       | Cutting/Tapping Fluids |                    |                                     |                               |
| <b>Company Name:</b> | <b>Product Name:</b>  | <b>Conc.:</b>          | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b>          |
| Sysco Corporation    | Fryer & Grill Cleaner | 5                      | 94.45              | <input checked="" type="checkbox"/> |                               |
| Ausimont USA Inc     | Perfluorosolv PFS 1   | 100                    | 52.78              | <input type="checkbox"/>            |                               |
| Tarksol Inc          | SRKS 40               | 100                    | 100.33             | <input checked="" type="checkbox"/> |                               |
| Tomah Products Inc   | Tomadyne 102          | 100                    | 100.76             | <input checked="" type="checkbox"/> |                               |
| Chem Tech Solutions  | Westech CT 1550       | 100                    | 101.77             | <input checked="" type="checkbox"/> |                               |
| Chem Tech Solutions  | Westech CT-4712       | 5                      | 108.32             | <input type="checkbox"/>            | cannot be used with aluminium |

## Conclusion: