# CLEANING LABORATORY EVALUATION SUMMARY

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| SCL #: | 2003 |
| DateRun: | 12/11/2003 |
| Experimenters: | Dave Hout |
| ClientType: | Lab |
| ProjectNumber: | Project #1 |
| Substrates: | Stainless Steel |
| PartType: | Coupon |
| Contaminants: | Lubricating/Lapping Oils |
| 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.<br>Four products were heated to 130 F on a hot plate and four others were used at full strength. Twenty-four preweighed coupons were coated with Lubricant - LPS Magnum Teflon and allowed to dry for a half an hour and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Effeciencies were calculated. |
| Results: | |

Summary:

| **Substrates:** | Stainless Steel | | | | |
|---|---|---|---|---|---|
| **Contaminants:** | Lubricating/Lapping Oils | | | | |
| **Company Name:** | **Product Name:** | **Conc.:** | **Efficiency:** | **Effective:** | **Observations:** |
| EcoLink | Positron | 100 | 99.21 | ☑ | |
| Man Gill Chemical Company | Gillite 1156 | 100 | 99.41 | ☑ | |
| Nensco | DT 600 Press Wash | 100 | 98.66 | ☑ | |
| Nensco | USA Wash | 100 | 99.40 | ☑ | |
| Hurri Kleen Corportion | HurriSafe - Hot Immersion Degreaser | 5 | 98.49 | ☑ | |
| Brulin Corporation | Nature Sol 100 | 5 | 96.01 | ☑ | |
| Hubbard Hall Inc | Ram Charger | 5 | 98.86 | ☑ | |
| Quaker Chemical | Formula 625 XL | 5 | 99.16 | ☑ | |

Conclusion: All products were effective at removing the lubricant at an efficiency rate of 99%