

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 01/06/2004

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

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. Seven products were heated to 130 F on a hot plate and one product was used at full strength. Twenty-four preweighed coupons were coated with Cutting Fluid - Remi Corp Re Lion 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. Efficiencies were calculated.

## Results:

### Summary:

<b>Substrates:</b>		Stainless Steel				
<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>	
Man Gill Chemical Company	Gillite 1156	100	60.55	<input type="checkbox"/>		
Hubbard Hall Inc	Ram Charger	5	74.94	<input type="checkbox"/>		
Hurri Kleen Corportion	HurriSafe - Hot Immersion Degreaser	5	99.91	<input checked="" type="checkbox"/>		
Heatbath Corporation	MultiKleen LX 1573	5	102.42	<input checked="" type="checkbox"/>		
Chemkleen International Inc.	CT 1 Multipurpose Cleaner	5	101.28	<input checked="" type="checkbox"/>		
Buckeye International	Work Out	5	102.94	<input checked="" type="checkbox"/>		
Delta Omega Technologies Ltd	Attar D(R3)	5	99.97	<input checked="" type="checkbox"/>		
Equinox Products	Natural Solutions	5	102.60	<input checked="" type="checkbox"/>		

Conclusion: 6 out of 8 products were effective at removing the contaminant at an efficiency rate of >99%