

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002  
 DateRun: 02/11/2002  
 Experimenters: Purav Dave  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Stainless Steel  
 PartType: Coupon  
 Contaminants: Buffing/Polishing Compounds, Cutting/Tapping Fluids, Greases  
 Cleaning Methods: Ultrasonics  
 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.  
 1. Buffing compound - The Lea Manufacturing Company Learok 2-B-111 - Abrasive, Fatty acids, Glycerides and petroleum wax/oil mix-silica dust (14808-60-7)  
 2. Grease - Elf Lubricants, Keystone KSL-111 Synthetic Tacky Grease (64742-478, 8052-42-4)  
 3. Lubricant - ITW Devkon Safetap stick, grinding lubricant, contains TSRK 80100221-5000P, TSRK 80100221-5001P, TSRK 80100221-5002P

Results:

Summary:

<b>Substrates:</b>		Stainless Steel			
<b>Contaminants:</b>		Buffing/Polishing Compounds, Cutting/Tapping Fluids, Greases			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Simple Green	Simple Green D	5	106.20	<input type="checkbox"/>	Contaminant: Buffing compound, Method: Ultrasonic
Watson Technical Associates	Watson Formula 7300	5	92.81	<input checked="" type="checkbox"/>	Contaminant: Grease, Method: ultrasonic
Watson Technical Associates	Watson Formula 7300	5	89.39	<input checked="" type="checkbox"/>	Contaminant: Grease, Method: immersion with stirbar agitation
Watson Technical Associates	Watson Formula 7300	5	83.26	<input type="checkbox"/>	Contaminant: Grease, Method: immersion with air sparging system
JDI Inc	Mirachem 500 RTU	5	97.49	<input type="checkbox"/>	Contaminant: Lubricant, Method: Ultrasonic

Conclusion: For cleaning grease with Watson Formula 7300- ultrasonic was found to be the most effective.