

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998  
 DateRun: 05/07/1998  
 Experimenters: Jason Marshall  
 ClientType: Manufactures parts for Semi-Conductor Industry  
 ProjectNumber: Project #1  
 Substrates: Plastic, Stainless Steel  
 PartType: Part  
 Contaminants: Adhesive  
 Cleaning Methods: Ultrasonics  
 Analytical Methods: Visual  
 Purpose: Find cleaner to remove adhesvie

**Experimental Procedure:** The intent of the experiment was to find a cleaning solution that could remove the adhesive bond between the two substrates.  
 Two solutions were selected from the Laboratory's database based on substrate compatibility and the cleaner's ability to remove adhesives. Full strength solutions were used in a beaker. The solutions were heated to 130 F and placed into a Crest 40 kHz ultrasonic tank. The sample was placed into the cleaning solutions and observed every five minutes up. After each interval, the sample's position in the beaker was changed to aid the ultrasonic cleaning. At the end of 15 minutes, the part was removed from the cleaning solution and rinsed in tap water at 120 F for 30 seconds. The part was dried using air blow off and a Master Heat Gun Model HG 301A with a temp range of 300-500 F for 30 seconds. The part was observed to determine if separation was achieved.  
 SUBSTRATE MATERIAL: Stainless Steel & Plastic  
 CONTAMINANTS: Adhesive

**Results:** Neither product showed any signs of aiding in the separation of the two substrates. More samples are needed in order to test more cleaning solutions.

**Summary:**

<b>Substrates:</b>	Plastic, Stainless Steel				
<b>Contaminants:</b>	Adhesive				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
MacDermid Industrial Products	ND Supreme	10		<input type="checkbox"/>	
Chrisal USA Inc	Super CMF 240	100		<input type="checkbox"/>	

**Conclusion:** The two products tested were not effective in removing the adhesive between the two surfaces. In the next test, semi-aqueous products will be tested along with other aqueous cleaners.