

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 01/07/2004

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. One product was heated to 130 F on a hot plate and two products were used at full strength. Nine preweighed coupons were coated with Cutting Fluid - Remi Corp ReLion 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:

Substrates:	Stainless Steel				
Contaminants:	Cutting/Tapping Fluids				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	77.10	<input type="checkbox"/>	
Chemtronics Inc	Super Bio Wash	100	86.63	<input checked="" type="checkbox"/>	
Valtech Corporation	Valtron SP 2500	5	98.93	<input checked="" type="checkbox"/>	

Conclusion: Two out of three products were effective at removing the contaminant at an efficiency rate of over 86%