CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2005

DateRun: 05/05/2005

Experimenters: Heidi Wilcox

ClientType: Wire & Cable Mfr

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Mold Releases, Resins/Rosins

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate successful products under conditions closely matching current practice at client facility.

Experimental Procedure: Four products selected from previous testing. The products were used at full strength. Products were used at room temperature. Twelve preweighed coupons were first coated with Valspar MR 225 mold release (100-41-4, 1330-20-7, 8052-41-3, 67-63-0, 108-88-3, 110-82-7, 64742-89-8), followed by a second coating with Valspar MR 225 Aerosol (75-28-5, 74-98-6, 100-41-4, 75-09-2). The coupons were placed into a convection oven at 150 F and allowed to cure overnight. After the coupons were cooled to room temperature, a thin strip of Chockfast Orange Resin was applied and allowed to dry. A second set of weights were recorded to determine the amount of contaminant that was added.

Three coupons were cleaned in each product for five minutes using stir-bar agitation. After cleaning the coupons were removed and dried using compressed air at room temperature. Final weights were to be recorded after coupons were dry. Observations were made and recorded.

Results: No products were effective. The products may have removed some mold release but no resin which was really the issue.

Cleaner	Initial wt	Final wt	% Removed
Bio T Max	0.0766	0.0415	45.82
	0.0794	0.0381	52.02
	0.0672	0.0440	34.52
DS 104	0.0965	0.0596	38.24
	0.0633	0.0365	42.34
	0.0788	0.0470	40.36
MaxiSolv	0.0671	0.0634	5.51
	0.0694	0.0658	5.19
	0.0907	0.0859	5.29
DBE 5	0.0647	0.0624	3.55
	0.0637	0.0608	4.55
	0.0861	0.0830	3.60

Summary:

Substrates:	Aluminum				
Contaminants:	Mold Releases, Resins/Rosins				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Bio Chem Systems	Bio T Max	100	44.12	☐	
Dysol	DS 104 Wipe Solvent	100	40.31	☐	
Gemtek Products	Safe Care (SC) Maxi Solv	100	5.33	☐	
Invista S.a.r.l	Flexisolv DBE 5 ester	100	3.90	☐	

Conclusion: All products will be tried in heated immersion cleaning.