

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998

DateRun: 10/14/1998

Experimenters: Jason Marshall

ClientType: Ceramic Decal Printer

ProjectNumber: Project #1

Substrates: Plastic

PartType: Part

Contaminants:

Cleaning Methods: Immersion/Soak

Analytical Methods: Visual

Purpose: To determine the effects of cleaners on the photographic stencil film.

Experimental Procedure: The CDF Direct film was cut into eight, 2"x4" sections. Each section was placed into a vial containing a cleaning product. The vials were capped and allowed to sit for four hours. At the end of the soaking, the film sections were removed from the vials. Observations were made and recorded.

SUBSTRATE MATERIAL: CDF Direct-Film (Photographic Stencil Films)

CONTAMINANTS: None

Results: Several of the cleaning chemistries caused the colored portion of the film to separate from the clear backing. Others left the colored portion wrinkled. Table 1 lists the observations made for each cleaner.

Table 1. CDF Direct Film Conditions

PRODUCT	OBSERVATIONS
Exxon Chemical	Colored separated from clear portion. Color remained attached to vial.
AG Environmental	Colored section separated from clear portion.
Envirosolutions	Colored section remained attached to clear portion.
Finger Lakes	Colored section partially removed from clear.
Inland Technologies	Colored section became wrinkled.
Oakite Products	Colored section partially removed from clear.
T-Square	Colored section became wrinkled.
WR Grace	Most of colored section remained. Started peeling at the edges.

Summary:

Substrates:		Plastic				
Contaminants:						
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
Exxon Mobile Chemical Company	Aromatic 100 Solvent	100		<input type="checkbox"/>		
AG Environmental Products	Soy Gold 1000	100		<input type="checkbox"/>		
Bio Chem Systems	Bio T Max	100		<input checked="" type="checkbox"/>		
Finger Lakes Chemical	1-1-02	100		<input type="checkbox"/>		
Inland Technologies Inc	EP 921	100		<input type="checkbox"/>		
Oakite Products	Inproclean 4000 T	100		<input type="checkbox"/>		
Tarksol Inc	Tarksol HTF 60	100		<input type="checkbox"/>		
Magnaflux	Daraclean 294 xx	100		<input checked="" type="checkbox"/>		

Conclusion: Only two solutions left the colored section intact. Of the two, Envirosoluions Bio-T Max, was effective in removing the ink in the previous trial.