

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1999

DateRun: 07/01/1999

Experimenters: Jason Marshall

ClientType: Plating Job Shop

ProjectNumber: Project #2

Substrates: Aluminum, Brass, Stainless Steel

PartType: Part

Contaminants: Cutting/Tapping Fluids, Fluxes, Lubricating/Lapping Oils, Waxes, Dirt, Oil

Cleaning Methods: Ultrasonics

Analytical Methods: Black light

Purpose: To clean client supplied parts using cleaner from previous trials.

Experimental Procedure: Four parts were viewed using an UVP Inc. Black light, Model UVL-56 longwave UV-366nm for fluorescence. The cleaner from the previous trial, listed in Table 1, was used to clean the client supplied parts using Ultrasonics (Crest 40 kHz ultrasonic tank model 4Ht 1014-6) at room temperature for five minutes. Parts were rinsed using a tap water spray at 100 F for 30 seconds and air dried for one hour. Parts were then viewed again under the black light to determine if the contaminants had been removed. Figure 1 displays the parts cleaned.

Results: The wax was removed from the parts in less than five minutes of ultrasonic cleaning. There was no fluorescing under the black light.

Summary:

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Contaminants:	Cutting/Tapping Fluids, Fluxes, Lubricating/Lapping Oils, Waxes, Dirt, Oil				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Bio Chem Systems	Bio T Max	100		<input checked="" type="checkbox"/>	

Conclusion: EnviroSolutions Bio-T Max was very successful in the removal of wax from the various parts submitted to the lab for testing. All four parts have been sent back to the client for evaluation.