

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2006
DateRun: 09/08/2006
Experimenters: Jason Marshall
ClientType: General
ProjectNumber: Project #2
Substrates: Plastic
PartType: Part
Contaminants: Inks, Paints
Cleaning Methods: Ultrasonics
Analytical Methods: Visual

Purpose: To evaluate supplied alternative product on removing coating from golf ball

Experimental Procedure: The product used at full strength and was heated to 120 and 150 F in a 40 kHz ultrasonic tank. One golf ball was cleaned at each temperature for 40 minutes. At ten minute intervals of the cleaning, the ball was rinsed in a tap water spray for 15 seconds at 120 F and wiped dry with a paper towel. Observations were made and compared to the client's current cleaner.

Results:	Temp	Time	Observation
	120	10	No signs of removal
	120	20	Some ink could be wiped off
	120	30	Some coating removed
	120	40	Not shiny but still had ink remaining
	150	10	Comparable to the 40 minutes of cleaning at 120F
	150	20	Still not a lot of ink removal
	150	30	Coating "cracking" and ink was dull
	150	40	Lots of "cracking" in the coating

Summary:	Substrates:	Plastic				
	Contaminants:	Inks, Paints				
	Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
	WSI Industries	N Terpinol RS 98	100		<input type="checkbox"/>	
	WSI Industries	N Terpinol RS 98	100		<input checked="" type="checkbox"/>	Partially successful

Conclusion: Neither temperature resulted in a complete removal of the ink and paint from the golf ball after 40 minutes of ultrasonic cleaning.