

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007
 DateRun: 01/30/2007
 Experimenters: Jason Marshall
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #1
 Substrates: Aluminum, Ceramics
 PartType: Coupon
 Contaminants: Greases, Oil
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric

Purpose: To evaluate supplied cleaner for oil-grease cleaning using manual wiping.

Experimental Procedure: The supplied cleaning product was used at the recommended concentration (2%).
 Three preweighed aluminum and ceramic coupons were coated with an oil-grease mix collected from a dirty engine using a handheld swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.
 Three coupons were placed into a Gardner Straight Line Washability unit. A Wypall X60 reinforced wipe was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit for 20 cycles (~30 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded, and efficiencies recorded.

Results: The #120 Peroxide Multisurface Cleaner was effective in removing the oil-grease mix from the two surface types. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Aluminum	0.0387	0.0069	82.17
	0.0239	0.0045	81.17
	0.0289	0.0044	84.78
Ceramic	0.0206	0.0008	96.12
	0.0135	0.0013	90.37
	0.0109	0.0017	84.40

Summary:

Substrates:		Aluminum, Ceramics				
Contaminants:		Greases, Oil				
Company Name:	Product Name:		Conc.:	Efficiency:	Effective:	Observations:
Next-Gen Supply Group	PC 120 Peroxide Multisurface Cleaner		2	86.50	<input checked="" type="checkbox"/>	

Conclusion: The #120 Peroxide cleaner removed over 85% of the oil-grease mix using manual wiping for cleaning.