

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008
 DateRun: 03/18/2008
 Experimenters: Shweta Bansal
 ClientType: Lab
 ProjectNumber: Project #1
 Substrates: Brass
 PartType: Coupon
 Contaminants: Buffing/Polishing Compounds
 Cleaning Methods: Immersion/Soak
 Analytical Methods: Gravimetric
 Purpose: removing buffing compound from brass

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Products were based on the compatibility of substrate and removal of foreign substance. Used 5% concentration and heated the samples at 135F. The coupons were immersed in a product for 5 minutes, rinsed for 30 seconds in tap water at 120F and dried in 30 seconds using compressed air is room temperature. Coupons were coated with used oil. Using a handheld swab and allowed to dry for 144 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. After cleaning process the final weights were recorded, efficiencies were calculated and recorded.

Results:

Cleaner	Initial wt	Final wt	% Removed
inproclean 3800			
	0.8785	0.8051	8.36
	0.7867	0.6491	17.49
	0.5309	0.3606	32.08
mc 132			
	1.5034	0.8708	42.08
	1.3357	1.1224	15.97
	0.6717	0.3121	53.54
buff clean 14L			
	0.7026	0.6022	14.29
	0.7723	0.6484	16.04
	1.0793	0.8416	22.02
alconox det 8			
	0.4199	0.0492	88.28
	0.3585	0.0331	90.77
	0.4261	0.0352	91.74
daraclean 283			
	1.0976	0.5828	46.9
	0.3483	0.2441	29.92
	1.3194	1.1998	9.06
daraclean kx 43			
	0.1467	0.0799	45.54
	0.3213	0.2148	33.15
	1.0750	0.0833	92.25
buckeye 100xl poly			
	0.8375	0.5115	38.93
	0.7553	0.6092	19.34
	0.4438	0.3153	28.95
us polychem spray jet			
	0.3504	0.2057	41.30

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	0.5013	0.1932	61.46
	0.3546	0.2112	40.44
buffclean 175L			
	0.8697	0.8044	7.51
	0.2362	0.2209	6.48
	0.8866	0.2933	66.92
buffclean 125L			
	0.6668	0.5172	22.44
	0.4311	0.3210	25.54
	0.5988	0.3087	48.45

Summary:

Substrates:	Brass				
Contaminants:	Buffing/Polishing Compounds				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Oakite Products	Inproclean 3800	10	19.31	<input type="checkbox"/>	
Matchless Metal Polish Company	MC 132	10	37.19	<input type="checkbox"/>	
Magnaflux	Daraclean 283	10	28.63	<input type="checkbox"/>	

Conclusion:

The one and only product that has passed our test with an 85% or better is buff clean 14L with a percentage of removal of 90.26%. The other products have not passed the passing rate of contaminant removal of 85%.