

CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2006																								
DateRun:	09/05/2006																								
Experimenters:	Jason Marshall																								
ClientType:	Metal Working																								
ProjectNumber:	Project #1																								
Substrates:	Brass																								
PartType:	Coupon																								
Contaminants:	Buffing/Polishing Compounds																								
Cleaning Methods:	Immersion/Soak																								
Analytical Methods:	Gravimetric																								
Purpose:	To evaluate one product on first supplied buffing compound using immersion cleaning.																								
Experimental Procedure:	<p>The product was diluted to 5% in 250 ml beakers using DI water and heated to 130 F on a hot plate. Three preweighed coupons were coated with the brown buffing compound using a handheld swab. Coupons were weighed a second time to determine the amount of buffing compound added. Three coupons were cleaned in each solution for five minutes using minimal stir bar agitation. Coupons were rinsed for 15 seconds in a tap water bath at 120 F and dried using a dry compressed air for 30 seconds. Once dry coupons were weighed a final time and product efficiencies were calculated.</p>																								
Results:	<p>The Detergent 8 cleaner removed over 90% of the brown buffing compound within 5 minutes of immersion cleaning. The following table lists the amount of buffing compound applied, the amount remaining and the efficiency for each coupon cleaned.</p> <table> <tr> <th>Cleaner</th> <th>Initial wt</th> <th>Final wt</th> <th>% Removed</th> </tr> <tr> <td>Detergent 8</td> <td>0.2418</td> <td>0.0203</td> <td>91.60</td> </tr> <tr> <td></td> <td>0.1786</td> <td>0.0064</td> <td>96.42</td> </tr> <tr> <td></td> <td>0.1777</td> <td>0.0202</td> <td>88.63</td> </tr> </table>	Cleaner	Initial wt	Final wt	% Removed	Detergent 8	0.2418	0.0203	91.60		0.1786	0.0064	96.42		0.1777	0.0202	88.63								
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Conclusion:	Detergent 8 was effective on the buffing compound.																								