

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2014

DateRun: 04/25/2014

Experimenters: Junhee Cho

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics

PartType: Coupon

Contaminants: Food

Cleaning Methods:

Analytical Methods: Visual

Purpose: This method is intended to evaluate the longevity of the foam from a single dose of dishwashing product when used according to a "neat" dishwashing procedure

Experimental Procedure: Three dishwashing products were selected (VI JON Dishwashing, Dawn dishwashing cleaner, Method power foaming soap). In this test, Tester used the specific dishwashing method (CSPA DCC 18, "neat" hand dish washing test t") since the supplied dishwashing products are designed to dose directly onto the sponge to wash. Based on the standard, food soil was prepared at room temperature and was used immediately after making; food soil is a mixture of specific proportion of ingredients (Soybean oil, Lard, Whole egg powder, Potato flour, and Deionized water). Cleaning performance was conducted by standard procedure. Three gram of cleaner (two pumps from supplied bottle) was dosed into sponge. Each dish was cleaned for 10 second. Forming level was evaluated by observational analysis based on using sponge method. Tester counted the number of plates until sponge was not able to show any bubbles or forming when tester pressed gently in the center of the sponge with the thumb after washing.

As a result, average number of plates was used to show the cleaning efficacy (longer foaming stability) from each cleaner. Each cleaner was tested three times to measure the more accurate cleaning efficacy (forming level). Same cleaning process was repeated for Vi-Jon and Dawn dish soap.

Results: Three products were tested. The average number of plates by Vi-Jon was 2.67. It was lower than other comparison products (the average of number of plates by Dawn was 4 and the average plate number of method power foam dish soap was 3.6). This test indicated that Dawn and method power foam dish soap have better cleaning efficacy than Vi-JON based on same dishwashing condition.

Visually, the method power foaming dish soap made more foam than others when tester pumped the spray. But most foam was removed during first washing plate. This test is designed for general food soil, so the result can be different for other types of grease or oil.

Summary:

Substrates:	Ceramics				
Contaminants:	Food				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Method	Method Power Foam Dish Soap	0.1		<input checked="" type="checkbox"/>	
Vi-Jon	Replenish Foaming Dish Soap Honey Sage Dilute	0.1		<input type="checkbox"/>	

Conclusion: Visually, the method power foaming dish soap made more foam than others when tester pumped the spray. But most foam was removed during first washing plate.