

Report Date: April 9, 2026

Test Date: April 8, 2026

Report #: 37157-09-04-2026

Client: Bioferment Technology
 2660 Jewett Lane
 Sanford, FL, USA
 32771

Test: ASTM D4488-A5 Particulate and Oily Soil/Vinyl Tiles Test Method

Samples:

Sample Name	LC#	Test Dilution
mother ferment concentrated commercial cleaner	26-0102	1:32

Procedure:

A synthetic oily soil is prepared of an oil phase and a particulate phase. 50 mg of particulate soil is placed on a white vinyl tile over a space of 2 x 4 in. This is done with a template to ensure a constant application area. Five drops of the oily blend is applied to double thickness paper towel and rubbed in a circular motion over the particulate soil. The panels are allowed to air dry for 24 hours. Reflectance readings are taken before and after soiling and after cleaning. Cleaning is done by applying 20mL of the test solution to the soiled tile surface for 2 minutes, then soaking a sponge in 50mL of test solution for 1 minute (3 minutes total elapsed time). The tile is then scrubbed for 10 cycles with a Gardner Straight-line Washability Apparatus.

Cleaning Efficiency is evaluated using reflectance measurements

$$\% \text{ Cleaning Efficiency} = (R_c - R_s) / (R_o - R_s) \times 100$$


Where R_c = cleaned reflectance
 R_o = original reflectance
 R_s = soiled reflectance

Results:

Sample	% Cleaning Efficiency*	Standard Deviation
mother ferment concentrated commercial cleaner	95.64	0.97

**3 replicates for each product were tested*

Tested by: 
 Katherine Hatherley, Lab Technician

Approved by: 
 Dana Mladin,
 Principal Technical Consultant

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