



DRYCLEANING & LAUNDRY
 INSTITUTE INTERNATIONAL
 TEXTILE TESTING LABORATORY REPORT

DATE OF REPORT: May 8, 2017

REPORT NO.: T-17-036

CLIENT: Amato Industries, Inc.
 9120 Talbot Avenue
 Silver Spring, MD 20910
 Attn: Dean Manolatos

OBJECTIVES:

To subject the submitted samples 83 care cycles using Cleanovation Laundry Care System, designed by Cleaner Solution, LL, according to client specifications

TEST PROCEDURES:

Wash 3 towel sample, 1 each in a net bag with white towels as ballast to make a 20 lb load
 Pull towel #1 at the 28th cycle and tumble dry; towel #2 at 56th cycle, tumble dry and towel #3 continues through 83 cycles

Two formulas will be used in the wash cycles:

Formula #1 (all cycles except #29 and #57)				
Step	Time	Water level	Temp. °F	Supply / 20 lb load
Break 1	12 min.	low	110-120	Balance 1 oz
No DRAIN				
Break 2	12 min	low	170	ProcellR8 1 oz/ nuBleach 1 oz
Drain	1 minute			
Rinse	2	high	split	
Drain	1 min			
Rinse	2 min	high	cold	
Drain	1			
Extract	6			

Formula #2 (use in cycles #29 and #57)				
Step	Time	Water level	Temp. °F	Supply / 20 lb load
Break 1	12 min.	low	110-120	Balance 1 oz
No DRAIN				
Break 2	12 min	low	170	ProcellR8 1 oz/ nuBleach 1 oz
Drain	1 minute			
Rinse	2 min	high	split	
Drain	1 min			
Rinse	2 min	high	cold	
Drain	1 min			
Finish	8 min	low	split	Durobond 4 oz
Extract	6 min			

All wash cycles were carried out in a 40 Milnor washer extractor. Items were tumbled dry in a Huebsch dryer on high with a 10 min cool-down.

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 Laurel, MD 20707
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CONCLUSION:

Sample towels were washed according to specifications. Sample towel #1 in the red net bag was pulled from the load after 28 cycles, tumbled dry and, using vinyl gloves rinsed with alcohol, placed in plastic bag and sealed closed. The same procedure was followed with Sample #2 in turquoise net bag after 56 cycles and sample #3 in royal blue net bag after 83 wash cycles.

Formula # 1 was used at every cycle except 29 and 57 when Formula # 2 with Durabond was added to the formula.

Sincerely,



Lorraine Muir
Director Textile Testing

Enc.: washlog

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AMATO INDUSTRIES, INC.

013206

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1.800.992.6286 301.565.3220 f. 301.565.9227

T-17-036

WASH TEST – 28/56/83 – Sustainability of Protective Anti-Microbials on Fabric

The products are part of a new washing program – CLEANOVATION Laundry Care System, designed by CLEANER SOLUTION, LLC and distributed by AMATO INDUSTRIES, INC.

BALANCE – microbe enzyme detergent

PROCELLR8 – booster

nuGUARD – non-oxidizing whitener and brightener

DUROBOND – stain repellent – 28 rotations – wash in finish cycle formula with 12 ounces CWT of Durobond in the 29th wash use formula #2 with the finish cycle and again on the 57th wash rotation use formula #2 then continue with the standard formula #1 after each finish cycle wash.

MICROSTATIC – anti-microbial protective finish - 83 rotations

The wash cycles are the wash rotations or wash times each product should hold and be effective.

The sample marked 28 rotations will be dried and placed in marked zip lock bag. *Red bag*

The sample marked 56 rotations will be dried and placed in marked zip lock bag. *turquoise*

The sample marked 83 rotations will be dried and placed in marked zip lock bag. *Royal blue*

The samples being removed will be handled with latex gloves rinsed with alcohol. The samples will be pulled directly from dryer with alcohol rinsed gloves and placed into a properly marked zip lock bag. A call to Dean (301.332.5760) after each sample is pulled; Dean will come by to send it to the testing lab.

I will program the washer to be used with the correct formulas. There will be two formulas – #1 with the standard wash and #2 with the standard wash plus the finish cycle.

I will supply the marked sample bags, chemical products w/SDS, gloves and alcohol. ✓

Formula #1 standard wash:

Break 1 - 12minutes/low/110-120/Balance 1oz

NO DRAIN

Break 2 - 12 minutes/low/170/ProcellR8 1oz/nuGUARD 1 oz

Drain – 1 minute

Rinse – 2 minutes/high/split

Drain – 1 minute

Rinse – 2 minutes/high/cold

Drain – 1 minute

Extract – 6 minutes

bleach

or if bag bleed

Formula #2 standard wash plus finish cycle:

Break 1 - 12minutes/low/110-120/Balance 1oz

NO DRAIN

Break 2 - 12 minutes/low/170/ProcellR8 1 oz/nuguard 1oz
bleach

Drain - 1 minute

Rinse - 2 minutes/high/split

Drain - 1 minute

Rinse - 2 minutes/high/cold

Drain - 1 minute

Finish - 8 minutes/low/split/ Durobond 4 oz on the 29th and 57th wash rotation.

Extract - 6 minutes

A statement from IFI stating that the above procedures were used to complete the sustainability test washing of the protective anti-microbials on fabric is required.

Contact info for: Dean Manolatos

Email: dean@amatoind.com

Cell and/or text: 301.332.5760

WASHLOG

REPORT NO. T-17-036

Customer: Amato -Dean

CYCLE #	DATE	WASH TIME	INITIAL	DRY TIME	NOTES
1	5/1/15	1:00	Lm		
2		1:46	Bj		Do NOT DRY cycle 1-27
3		2:30	Bj		
4		3:15	Bj		
5		4:00			
6	5/2	7:30			
7		8:15	Jm		
8		9:00	Jm		
9		9:45	Jm		
10		10:30	Jm		
11		11:15	Jm		
12		12:00	Jm		
13		12:45	Jm		
14		1:30	Jm		
15		2:15	Jm		
16		3:00	Jm		
17		3:45	Jm		
18		4:30	Jm		
19	5/3	10:50	Bj		
20		11:35	Bj		
21		12:15	Jm		
22		1:00 PM	Jm		
23		1:45	Jm		
24		2:30	Jm		
25		3:14	Lm		
26		3:58	Lm		
27	5/4	6:40 AM	Jm		
28		7:22 AM	Jm	* Tumble dry - see instruction *	
29		8:43	Lm	Formula #2 - Dean . add Dura-bond	
30		9:30	Jm	Do NOT Tumble dry 29-55	

Washer :	Dryer:
Program #: # 5D - Formula #7 Dean	Temp.
Ballast: # 51 Formula #2 Dean	Time
Supplies :	Ballast: Y N (circle one)

See Log
 instruction book of this page

Cycle 51
 Formula #2
 Dean

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Customer: Amato

CYCLE #	DATE	WASH TIME	INITIAL	DRY TIME	NOTES
31	5/4	10:15	JM		
32		11:06	BS		
33		11:49	BS		
34		12:35	RF		
35		1:20	JM		
36		2:00	JM		
37		2:45	RF		
38		3:30	RF		
39		4:15	lm		
40		5:00	lm		
41		5:44	lm		
42		6:28	l		
43		7:11	lm		
44		7:55	lm		
45	5/5	5:30 AM	JM		
46		6:15	JM		
47		7:00	JM		
48		7:45	JM		
49		8:25	JM		
50		9:10	JM		
51		9:50	JM		
52		10:30	JM		
53		11:20	JM		
54		12:00	JM		
55		12:45	JM		
56		1:30	JM		
57		2:15	MS		
58		3:10	lm		
59		3:55	MS		
60		4:40	RF		
61	5/6	7:25	RF		
62		8:20	RF		
63		9:00	RF		
64		9:45	RF		
65		10:30	RF		

d.N.T.D
#29-55

* Tumble dry - see instruction formula 2 w/ Durabond

D.N.T.D

* 57-82

RF

→

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Customer: Amato - Dear

CYCLE #	DATE	WASH TIME	INITIAL	DRY TIME	NOTES
66		11:05	RF		
67		11:55	RF		
68		12:40	RF		
69		1:25	RF		
70		2:10	RF		
71		2:50	RF		
72	5/7	5:30AM	Jm		
73		6:15	Jm		
74		7:00	Jm		
75		7:45	Jm		
76		8:30	Jm		
77		9:15	Jm		
78		10:00	Jm		
79		10:45	Jm		
80		11:30	Jm		
81		12:15	Jm		
82	5/8	6:30AM	Jm		
83		7:15	Jm		* Turn dry - see instruction