



## FusionSwirl™ Technical Information

### GENERAL INFORMATION:

FusionSwirl is a decorated aluminum sheet that can be installed easily to various substrates, including drywall.

### PHYSICAL PROPERTIES:

DESCRIPTION	VALUE
Item Shape	Flat Sheet
Material	Aluminum 3003 Aluminum 5005
Temper	H14
Thickness	.032"
Weight per Sheet	18.24 lbs
Width	48"
Length	120"
Specs	ASTM B209

- Aluminum is in stock as 4' x 10' sheets. Other sizes, including 4' x 8', are available on special order.
- Maximum image size is approximately 5' x 10', nominal (image size 58" x 118").
- Finishes available include Gloss and Satin.

### TECHNICAL PROPERTIES:

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile Strength (ksi)	ASTM B-557	22.0
Yield Strength (ksi)	ASTM B-557	20.7
Elongation %	ASTM B-557	4.0

**ADDITIONAL INFORMATION:****MAINTENANCE:**

Clean surfaces with a soft cloth using a household cleaner – waxes, Windex type solutions, or ordinary soap and water. Good furniture or automobile waxes can provide additional protection.

<b>Stain Resistance Testing</b>		<b>FusionSwirl - Gloss</b>		<b>FusionSwirl - Satin</b>	
		<b>24 Hrs</b>	<b>7 Day</b>	<b>24 Hrs</b>	<b>7 Day</b>
<b>#</b>	<b>Materials</b>				
1	Wesson Oil®	N	N	N	N
2	Household Ammonia	N	N	N	N
3	409 all-purpose cleaner®	N	N	N	N
4	“Tide” laundry detergent	N	N	N	N
5	Isopropyl Alcohol	N	N	N	N
6	Bleach	S	S	N*	N*
7	Grape Juice	N	N	N	N
8	Orange Juice Concentrate	N	N	N	N
9	Coffee	N	N	N	N
10	Mustard	N	N	M	M
11	Ketchup	N	N	N	N
12	Red wine	N	N	N	N
13	Coca-Cola®	N	N	N	N
14	Water	N	N	N	N
15	Black crayon	N	N	N	N
16	Lipstick	N	N	N	N
17	Pine-Sol®	N	N	N*	N*
18	Vinegar	N	N	N	N

N = no change

S = slight change

M = medium change

L = large change

\* Note: "No change" to "slight change" seen, depending on color or pattern

**Steam Test Results**

Test EN 438-2:2005

NAME:	FusionSwirl	FusionSwirl
TYPE:	Satin	Glossy
THICKNESS:	.032"	.032"
RATING:	1	1
DATE:	7/12/11	7/12/11

## Ratings:

- 5 No visible change.
- 4 Slight change of gloss and/or color, only visible at certain viewing angles.
- 3 Moderate change of gloss and/or color.
- 2 Marked change of gloss and/or color.
- 1 Blistering and/or delamination

Abrasion Resistance Testing	# OF CYCLES	
	1ST WEAR POINT - all 4 quadrants	WORN ALL THE WAY THROUGH - all 4 quadrants
FusionSwirl - Glossy	10,000*	n/a

\* coating worn, no sign of wear to image

**TESTING SPECIFICATIONS:**

Taber Abrader Model 5130

500 g weight

CS-10 Calibrase Wheel

ASTM D-1044

**CONDITIONS & WARRANTY**

Advanced Technology, Inc. believes all information contained herein to be correct. It is the responsibility of the fabricator/customer to completely test the adhesives and methods of fabrication to ensure that the results are satisfactory. ATI is not responsible for any fabrication or ancillary costs involved with using FusionSwirl products.

All shipments are to be inspected within 10 working days after delivery. We are to be informed in writing of any potential adjustment necessary. The seller's only obligation will be to replace defective sheets on a one to one basis. Neither the manufacturer nor the seller shall be liable for any additional damage or loss, directly or indirectly, arising as a result of using FusionSwirl products.

Slight imperfections and color variations from sheet to sheet are possible and considered normal. Please inspect each sheet carefully before fabrication to ensure it meets your needs.

**CAUTION**

**FusionSwirl and other metal laminates will conduct electricity. To avoid electrical shock and damage to equipment, please make sure that all electrical circuits, tools, and devices used with FusionSwirl are properly grounded.**