

Report Printed: August 28, 2012

Submission ID: AT2012-01835

Chemcoaters

700 Chase Street

Gary, IN 46404

Project/Submission Number:

12-0006557 / AT2012-01835

Industry:

AT Steel/Coil

Customer Line Number:

667769-001

Line Description:

1

Submitted by:

Wayne Wilczewski

Date Received:

08/01/2012

Articles for Test:

4 Panels (071612-A), Chemcoaters, Gary, IN. SS

Approved by:

Michelle Audette

Accelerated Testing Team Leader

LINE PARAMETERS

Cleaner Stage

Name

Value None

Accounting Information:

Purchase Order Number:

No Charge

Invoice Number:

Invoice Amount:

\$

360

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PAINT SYSTEM

Top coat Type Top coat Code Primer / Surfacer Primer Supplier Primer Code

Chemguard

MISCELLANEOUS

Return Panels?

Yes

Attn: Wayne Wilczewski

Remarks:

Prod. date 7/2/12. Return to Wayne. Per request, test panels as received. Test 1 panel for 144hrs, 240hrs and 504hrs. Test 1 panel to 10% Red Rust. Panels were received with 3 edges taped and a scribe. Coil #071612-A. 4 Panels (071612-A), Chemcoaters, Gary, IN. SS **Per e-mail from Wayne Wilczewski on 7-17-12, pull sample submitted for 10% red rust at 10% red rust or 408 hours of salt spray, whichever comes first.** **For Sample ID 4: At 408 hrs of Salt Spray, there was 0%

Red Rust.**

Opinions and Interpretations:

None

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SALT SPRAY (WI MH-AT Cont Exp A-01: Referencing ASTM B117)

		ASTM	Blister	Hours	Max. Creep	Mean Creep	Min. Creep	Rust	Test In Date	'est Out Dat
					mm	mm	mm			
AT2012-01835-001	1	9	F9	144	2.2s	0.2	0.0	8G	8/3/12 0:00	8/9/12 0:00
AT2012-01835-002	1E	6	F9	144	9.1s	2.2	0.6	8G	8/3/12 0:00	8/9/12 0:00
AT2012-01835-003	2	9	F8	240	2.6s	0.2	0.0	7 G	8/3/12 0:00	8/13/12 0:0
AT2012-01835-004	2E	4	F8	240	11.7	5.4	1.0	7G	8/3/12 0:00	8/13/12 0:0
AT2012-01835-005	3	9	M8	504	1.0	0.2	0.0	7 G	8/6/12 0:00	8/27/12 0:0
AT2012-01835-006	3E	5	M8	504	9.0	3.9	2.0	7 G	8/6/12 0:00	8/27/12 0:0
AT2012-01835-007	4	9	M9	408	2.3s	0.1	0.0	7 G	8/6/12 0:00	8/23/12 0:0
AT2012-01835-008	4E	7	М9	408	3.3	1.8	1.3	7G	8/6/12 0:00	8/23/12 0:0

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	Sam	ıple	Summary
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Sample Number	Production Date	Coil	Substrate	
AT2012-01835-001	07/02/2012	071612-A	Galvanneal	
AT2012-01835-002	07/02/2012	071612-A	Galvanneal	
AT2012-01835-003	07/02/2012	071612-A	Galvanneal	
AT2012-01835-004	07/02/2012	071612-A	Galvanneal	
AT2012-01835-005	07/02/2012	071612-A	Galvanneal	
AT2012-01835-006	07/02/2012	071612-A	Galvanneal	
AT2012-01835-007	07/02/2012	071612-A	Galvanneal	
AT2012-01835-008	07/02/2012	071612-A	Galvanneal	

Accelerated Testing Laboratory General Information & Terms and Conditions

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The Henkel Accelerated Testing Laboratory in Madison Heights, MI, is housed within corporate headquarters, remote from manufacturing. The lab provides support to manufacturing and product development. The Madison Heights location maintains a current ISO 9001 certificate, which complies with ISO/TS 16949 and its guidance rules.

Henkel Test Methods may vary from the standard specifications listed below in order to accommodate our laboratory conditions. Customers must assess their needs and determine if Henkel methods meet their requirements. For a detailed description of Henkel methods, interpretations, and deviations from standard referenced specifications, see our internal Work Instructions. Our internal work instructions are designed only for use at Henkel laboratories by Henkel personnel. Henkel takes no responsibility for the use of these methods at non-Henkel facilities or for use by non-Henkel personnel. Henkel makes no warranty or representation about the suitability of any product, process, service or test method. We urge and recommend that any recipient conduct its own evaluation to determine to its own satisfaction whether any product, process, service or test method is of acceptable quality and is suitable for its particular purposes under its own operating conditions.

The Henkel Methods are intended for flat panels. If possible we will attempt to accommodate irregular shaped parts for test; however we cannot guarantee angles of part orientation, timing of precise operations, scribe sizes/orientations, or any other aspects of test that may be affected by irregular size. All parts must be free of oils, filling solutions, adhesives, contaminants, or any components that could become dislodged or dissolved in environmental testing.

Samples received for analyses or processing will be discarded, or returned if requested in writing, upon completion of services or analyses rendered, unless otherwise specified.

All samples are assumed to be received adequately and appropriately coated, cured, and cleaned/washed per the material requirements. No attempts will be made by the



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laboratory to clean samples prior to environmental exposures or physical testing.

The customer must define the test surface, as necessary. The customer must also identify and negotiate, prior to testing, any unusual needs for orientation or handling and provide the appropriate number and size of samples and controls.

This laboratory will not use film thickness to determine appropriate test methods, including scribe techniques or test durations. The customer must determine appropriate exposure/scribe/evaluation methods that suit their needs. Unless otherwise specified, the lab will default to using a Type E style, carbide tip lathe tool or a knife/razor blade, as appropriate for scribing. Based on an internal laboratory study, the average scribe depth obtained is 54 microns and consistently penetrates all coatings, including organic and plated metals, through to bare substrate.

The customer must define duration of exposure and rating frequency. Henkel can only accommodate exposure durations which are multiples of 24 hours and reserves the right to adjust requests to the nearest multiple of 24 hours.

Henkel can only report extraneous information describing parts to the extent to which the customer provides this information. This laboratory assumes that the customer will retain information regarding part description for their records, such as part numbers, production dates, process parameters, coating descriptions, cure times, shear description, etc. This laboratory makes no warrantee as to the accuracy of this information provided by the customer and lab personnel will not attempt to validate this information.

This laboratory uses Non-Iodized Food Grade Salt (Culinox 999 or equivalent) for all NaCl solution needs. We find that this grade of salt meets or exceeds the purity requirements of all methods within this Laboratory Scope, and fulfills the intent of requirements for Reagent Grade NaCl. Certificates of Analysis are available upon request. Samples whose test methods require soaking in a salt solution are soaked in an ambient salt solution, unless otherwise requested. Ambient conditions range from 20-30sC. No attempt is made to remove excess salt solution from sample edges. Therefore, any corrosion forming within 1/4 inch around the edges of the sample is disregarded when rating, unless otherwise requested.

The laboratory ambient temperature conditions are maintained in the range of approximately 20-30§C. Laboratory ambient humidity conditions cannot be completely controlled, therefore seasonal changes are observed. Through most of the year humidity is held within 30-70 % RH. However, in extreme summer conditions, levels can rise to >70% RH and in winter, can decrease to < 30 % RH. Some tests require specific ambient conditions, which therefore cannot be guaranteed. The customer must determine if Henkel Laboratory conditions are adequate for their needs.

The Henkel Accelerated Testing Laboratory conducts environmental exposure testing, corrosion evaluations, physical tests, equipment standardizations & verifications as appropriate using NIST traceable standards whenever possible.

Equipment calibrations are conducted by inside qualified/competent staff as possible and by outside qualified commercial/independent laboratories when needed.

Personnel conducting tests or making professional judgments with reference to testing, calibration, and control of testing, are competent and have appropriate background combined with experience, which is documented in the individuals training files.

The laboratory customers include both internal (R&D. Manufacturing, Technical Service) and external (manufacturers who purchase and use Henkel products).

Test parameters, such as test temperatures, pH, collection rates, water/solution replacement and quality, equipment information, calibration data, etc., are available on request but will not be included with every report.

In all matters, refer to Henkel's terms and Conditions of Sale,

The Accelerated Testing Lab participates in the following Henkel Key processes: Management, Planning, Staffing & Development, New Product Introduction & Trial, CCR, Manufacturing, and Lab Services.

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Tems and Conditions Revised 10-17-07

