



Designation: D5367 – 16 (Reapproved 2021)

Standard Practice for Evaluating Coatings Applied Over Surfaces Treated With Inhibitors Used to Prevent Flash Rusting of Steel When Water or Water/Abrasive Blasted¹

This standard is issued under the fixed designation D5367; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers procedures to evaluate the compatibility of coatings with inhibitors used to prevent flash rusting of steel before application of coatings.

1.2 The inhibitors are used with water-blast cleaning surface preparation and may be used with or without abrasives.

1.3 The manufacturer of the coatings shall be consulted to ensure compatibility of inhibitors with the coatings.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

- A36/A36M Specification for Carbon Structural Steel
- B117 Practice for Operating Salt Spray (Fog) Apparatus
- D714 Test Method for Evaluating Degree of Blistering of Paints
- D1193 Specification for Reagent Water
- D1654 Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
- D3359 Test Methods for Rating Adhesion by Tape Test

¹ This practice is under the jurisdiction of ASTM Committee D33 on Protective Coating and Lining Work for Power Generation Facilities and is the direct responsibility of Subcommittee D33.05 on Application and Surface Preparation.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

D4417 Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel

D4541 Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers

D4585 Practice for Testing Water Resistance of Coatings Using Controlled Condensation

D6677 Test Method for Evaluating Adhesion by Knife

2.2 SSPC Documents:³

SSPC-SP 5 Surface Preparation Specification No. 5, White Metal Blast Cleaning

SSPC-SP WJ-1/NACE WJ-1 Waterjet Cleaning of Metals Clean to Bare Substrate

SSPC-SP WJ-2/NACE WJ-2 Waterjet Cleaning of Metals Very Thorough Cleaning

SSPC-SP WJ-3/NACE WJ-3 Waterjet Cleaning of Metals Thorough Cleaning

SSPC-SP WJ-4/NACE WJ-4 Waterjet Cleaning of Metals Light Cleaning

SSPC-SP 5 (WAB)/NACE WAB-1 White Metal Wet Abrasive Blast Cleaning

SSPC-SP 10 (WAB)/NACE WAB-2 Near White Wet Abrasive Blast Cleaning

SSPC-SP 6 (WAB)/NACE WAB-3 Commercial Wet Abrasive Blast Cleaning

SSPC-SP 14 (WAB)/NACE WAB-8 Industrial Wet Abrasive Blast Cleaning

SSPC-SP 7 (WAB)/NACE WAB-4 Brush-Off Wet Abrasive Blast Cleaning

SSPC-TR2/NACE 6G 198 Wet Abrasive Blast Cleaning³

2.3 NACE Document:⁴

NACE TM-01-74 Laboratory Method for Evaluation of Protective Coatings and Lining Materials on Metallic Substrates in Immersion Service

3. Significance and Use

3.1 Water-blast cleaning with (SSPC-TR2/NACE 6G 198; SSPC-SP 5 (WAB)/NACE WAB-1; SSPC-SP 10 (WAB)/

³ Available from Society for Protective Coatings (SSPC), 800 Trumbull Dr., Pittsburgh, PA 15205-4365, <http://www.sspc.org>.

⁴ Available from NACE International (NACE), 15835 Park Ten Pl., Houston, TX 77084, <http://www.nace.org>.