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Standard Test Methods for Holiday Detection in Pipeline Coatings¹

This standard is issued under the fixed designation G 62, 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 superscrip epolion (e) indicates an editorial change since the last revision or trapperoval.

€ Non-Unit of measurement in section 1.2 was corrected editorially in July 2002.

1.1 These test methods cover the apparatus and procedure 3. Terminology for detecting holidays in pipeline type coatings. 1.2 Method A is designed to detect holidays such as pin-holes and voids in thin-film coatings from 0.0254 to 0.254 mm (1 to 10 mils) in thickness using ordinary tap water and an applied voltage of less than 100 V d-c. It is effective on films up to 0.508 mm (20 mils) thickness if a wetting agent is used with the water. It should be noted, however, that this method will not detect thin spots in the coating, even those as thin as 0.635 mm (25 mils). This may be considered to be a nonde-

structive test because of the relatively low voltage. 1.3 Method B is designed to detect holidays such as pinholes and voids in pipeline coatings; but because of the higher applied voltages, it can also be used to detect thin spots in the coating. This method can be used on any thickness of pipeline coating and utilizes applied voltages between 900 and 20 000 V d-c. This method is considered destructive because the high voltages involved generally destroy the coating at thin 4. Summary of Test Methods

1.4 The values stated in SI units to three significant decimals are to be regarded as the standard. The values given in parentheses are for information only. 1.5 This standard does not purport to address all of the

safety concerns, if any, associated with its use. It is the alerting the operator of the incidence of a holiday. responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

These test methods are under the jurisdiction of ASTM Committee D01 on Paint and Related Contings. Materials, and Applications and are the dient responsibility of Subcommittee D01.48 on Durability of Popeline Conting and Linings.

These test methods are under the jurisdiction of ASTM Committee D01 on painting in pinholes, voids, or metal particles are protructing through the coating, and thin spots in pipeline coatings. This method can be used to verify minimum coating thicknesses as well as Current edition approved Sept. 25, 1967. Published Nevember 1967. Originally published as Go2 – 79. Last previous edition Go2 – 85.

*This was taken from the pumpfilet "Operating Instructions for Tinker and Roser Model EP Holiday Desertor." Other manufacturers' holiday desertors can be

3.2 Definitions of Terms Specific to This Standard:

Coated and Polymer Precoated for Corrugated Steel Pipe3

3.1.1 holiday-small faults or pinholes that permit current drainage through protective coatings on steel pipe or polymeric precoated corrugated steel pipe. 3.1.2 mil-0.001 in.

3.2.1 holiday detector—A highly sensitive electrical device designed to locate holidays such as pinholes, voids, and thin spots in the coating, not easily seen by the naked eye. These are used on the coatings of relatively high-electrical resistance when such coatings are applied to the surface of materials of low-electrical resistance, such as steel pipe. 3.2.2 pipeline type coating-Coatings of relatively highelectrical resistance applied to surfaces of relatively lowelectrical resistance, such as steel pipe.

4.1 Both methods rely on electrical contact being made through the pipeline coating because of a holiday or a low-resistance path created by metal particles, or thin spots in the coating. This electrical contact will activate an alarm

4.2 In Method A, the applied voltage is 100 V d-c or less.

4.3 In Method B, the applied voltage is 900 to 20 000

5. Significance and Use

5.1 Method A-Method A describes a quick, safe method A 742/A 742M Specification for Steel Sheet, Metallic for determining if pinholes, voids, or metal particles are protruding through the coating. This method will not, however, find any thin spots in the coating. This method will determine the existence of any gross faults in thin-film pipeline coatings.

5.2 Method B—Method B describes a method for determin-

* Annual Book of ASTM Standards, Vol 01.06.

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Designation: A 1018/A 1018M - 07

Standard Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Carbon, Commercial, Drawing, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength¹

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2. Referenced Decements

- 2.E ASDM Dissalandi. 7
- A NA CM Specification for General Requirements for Rolled Structord Steel Raw, Plates, Stages, and Sheet.
- A 2013 25th Specification for Ceneral Requirements for Stud Plates for Phoyears Vessels."
- A. 37th Test Methods and Definitions for Machinesed Testing. of Most Products
- A 560th Smith Specification for Stock Short, Carlier, Senement, and High-Strength, Low-Allier, Hen-Rolled and Cold-Rellod, General Regottomeres for
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- A 655/A 635M, Specification, for Neel, Sheet, and Street, Heavy Thickness Cods, Hor-Roded, Curbon, Structural, High-Youngh Low-Alley, and High-Strongth Low-Alley with Improved Evenutelity, Convent Requirements for
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Designation: DH12 - 16

Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension'

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Designation: A1064/A1064M - 17

Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete1

This standard is broad under the trian designation A100-0100-MM. the country promptionly following the designation industry the your of intgined adoption in, to the cow of problem, the year of last recision. A morter or percentioner befores the year of last maggeretal. A separatelyt spoken (at indicates an additional change about the fact bricking or maggereral.

1. Scope*

1.1 This specification covers carbon-steel ware and welded wire reinforcement produced from hos-rolled red to be used for the reinfistrement of concrete. The steel wire is cold-worked, drawn or rolled, plain (non-deformed, as-drawn or galvanized). or deformed. Welded wire reinforcement is stude from plain or deformed wire, or a combination of plain and deformed wire. Common wire stags and dimensions are given in Table 1, Table 2, Table 3, and Table 4. Actual wine sizes are not restricted to those shown in the lables.

Nors. 1---Welded were for concrete retall/scornent has historically been described by various letter; welded wire fabric, WWF, fabric, and mech. The wire retail/economic industry has adopted the term welched wite oringino emerci (WWR) as being more representative of the applications of the products being manufactured. Therefore, the term welded were faller: has been replaced with the term welched were anightecement to this specification and in related specifications.

- 1.2 The values stated in either inch-pound or 51 units are to be regarded separately as standard. Within the test the SI units are shown in brackets testeen in Table 2 and Table 4). The values stated in each system are not exact equivalente. therefore, each system must be used independently of the other. Combining values may result in nonconformance with the specification.
- 1.3 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 appropriste safety and health practices and determine the applicahiller of regulatory limitations prior to use.
- 1.4 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 Recommondations issued by the World Trude Organization Technical Barriers to Trade (TBT) Committee.
- *This specification is packer the particulation of ARTM Committee African Smit-Stuistics, Start and Balasted Allines and in the object proposed billity of Subarmenitus IVID 10 on Stand Retailuterown.
- Curron edition approved March 15, 2017. Published March 2017. Degrandy. approved in 2009 Last previous edition approved in 2016 or A100-6 A100-64. DOM: NO INDOORSONS ADDRESS. FT

2. Referenced Documents

- 2.1 ASTM Standards
- A370 Test Methods and Detrutions for Mechanical Testing of Steel Products.
- A641/A641M Specification for Zing-Coated (Galvanized) Carbon Steel Wire
- 180 Practice for Vertication and Classification of Extenwometer Systems
- 2.2 U.S. Military Standard."
- MIL-STD-129 Marking for Shipment and Storage
- 2.3 U.S. Military Standard. Fed. Std. No. 123 Marking for Shipments (Civil Agencies)
- 2.4 American Concrete Buildude (ACT) Standard.4
- ACI 318 Building Code Requirements for Structural Concrete
- 2.5 Adjuncts:
- Welld Tester Deawing

J. Terminology

- 3.1 Definitions of Terms Specific to This Specification: 3.1.1 comolated wire-plain wire for welded wire reinforcement that is formed into a sinusoidal wave shape: deformed wire is not subject to convolution onless agreed upon by the perchaser and manufacturer.
- 3.1.1.1 Discussion-The wire is used in the manufacture of cages for certain applications of concrete pipe reinforcement.
- 3.1.2 deformed wire and deformed welded wire reinforcement—a material composed of cold-worked deformed. steel wire as cold-drawn or cold-rolled from hor orded steel.
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*A Summary of Changes section appears at the end of this standard right di 45°M Etimbaharia. 100 Bair Hedori Dress, PG Bair C756, West Datafréhisbani, PA 1909-2558 Urvisid Shin

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Specification A 961, the following list of standards apply to this specification:

2.2 ASTM Standards:

2.3 ASTM Standards:

A 366 A 2660 Specification for Carbon Steel Forgings for A 366 A 2660 Specification for Carbon Steel Forgings for G Steel Products*

A 370 Test Methods and Definitions for Mechanical Testing of Steel Products*

A 675A 675M Specification for Steel Bars, Carbon, How Wroughts, Special Quality, Mechanical Properties, A 6695 Specification for Steel Bars, Carbon, How Wrought or Colleb Funished, Special Quality, for Pressure Plying Com-Flanges, Forged Fittings, Valves, and Parts for Piping Applications² 2.3 AGS Standards: SP 44 Standard for Steel Pipe Line Flanges⁶ 2.4 ASME Standards: B16.5 Dimensional Standards for Steel Pipe Flanges and Flanged Fittings² B16.9 Wrought Steel Buttwelding Fittings² B16.10 Face-to-Face and End-to-End Dimensions of Fer rous Valves² B16.11 Forged Steel Fittings, Socket Weld, and Threaded²

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Therefore, the term welded wire fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric has been replaced with the term well as the fabric h verification processes to ensure only Authorized Users can access the ASTM Product. 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