



**American Water Works
Association**

The Authoritative Resource on Safe Water®

ANSI/AWWA C550-13
(Revision of AWWA C550-05)

AWWA Standard

Protective Interior Coatings for Valves and Hydrants



Effective date: May 1, 2013.

First edition approved by AWWA Board of Directors Jan. 25, 1981.

This edition approved Jan. 20, 2013.

Approved by American National Standards Institute Feb 25, 2013.

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AWWA Standard

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ISBN-13, print: 978-1-58321-934-8
ISBN-10, print: 1-58321-934-X

eISBN-13, electronic: 978-1-61300-227-8
eISBN-10, electronic: 1-61300-227-0

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Contents

All AWWA standards follow the general format indicated subsequently. Some variations from this format may be found in a particular standard.

SEC.	PAGE	SEC.	PAGE
Foreword		3	Definitions..... 2
I	Introduction..... vii	4	Requirements
I.A	Background..... vii	4.1	Materials 4
I.B	History..... vii	4.2	Coating Process..... 4
I.C	Acceptance..... vii	5	Verification
II	Special Issues..... viii	5.1	Test Procedures 5
III	Use of This Standard viii	5.2	Coating Repairs 7
III.A	Purchaser Options and Alternatives ix	6	Delivery
III.B	Modification to Standard ix	6.1	Affidavit or Certificate of Compliance..... 7
IV	Major Revisions..... ix	Appendix	
V	Comments ix	A	Shipping, Handling, and Holiday Testing..... 9
Standard		Table	
1	General 1	1	Schedule of Immersion Testing..... 5
1.1	Scope 1		
1.2	Purpose..... 2		
1.3	Application..... 2		
2	References..... 2		

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Foreword

This foreword is for information only and is not a part of ANSI/AWWA C550.*

I. Introduction.

I.A. *Background.* This standard describes protective interior coatings for valves used for water supply, wastewater collection and treatment, and reclaimed water service having a pH range from 4 to 9; and for hydrants used for water supply service. The standard describes the material, application, and performance requirements for these interior coatings. The coating shall be either a liquid or powder system and shall not contain coal tar. These coatings are applied to interior ferrous surfaces of valves and hydrants where corrosion protection is specified.

I.B. *History.* An AWWA joint task group was formed on Jan. 15, 1971, to study protective coatings for valves and hydrants in response to a request from the Gate Valve and Swing Check Valve, Butterfly Valve, and Fire Hydrant Standards committees. The purpose of this task group was to assemble all of the available information on protective coatings for valves and hydrants and to prepare a report from this information.

The AWWA Standards Committee on Protective Interior Coatings for Valves and Hydrants produced the first edition of ANSI/AWWA C550 in 1980. It was approved by the AWWA Board of Directors on Jan. 25, 1981. Subsequent editions were approved on Jan. 28, 1990; June 17, 2001; and Jan. 16, 2005. This edition of the standard was approved on Jan. 20, 2013.

I.C. *Acceptance.* In May 1985, the US Environmental Protection Agency (USEPA) entered into a cooperative agreement with a consortium led by NSF International (NSF[†]) to develop voluntary third-party consensus standards and a certification program for direct and indirect drinking water additives. Other members of the original consortium included the American Water Works Association Research Foundation (AwwaRF, now Water Research Foundation) and the Conference of State Health and Environmental Managers (COSHEM). The American Water Works Association (AWWA) and the Association of State Drinking Water Administrators (ASDWA) joined later.

In the United States, authority to regulate products for use in, or in contact with, drinking water rests with individual states.[‡] Local agencies may choose to impose

* American National Standards Institute, 25 West 43rd Street, Fourth Floor, New York, NY 10036.

† NSF International, 789 N. Dixboro Road, Ann Arbor, MI 48105.

‡ Persons outside the United States should contact the appropriate authority having jurisdiction.

requirements more stringent than those required by the state. To evaluate the health effects of products and drinking water additives from such products, state, provincial, and local agencies may use various references, including

1. An advisory program formerly administered by USEPA, Office of Drinking Water, discontinued on Apr. 7, 1990.
2. Specific policies of the state, provincial, or local agency.
3. Two standards developed under the direction of NSF, NSF/ANSI Standard 60, Drinking Water Treatment Chemicals—Health Effects, and NSF/ANSI Standard 61, Drinking Water System Components—Health Effects.
4. Other references, including AWWA standards, *Food Chemicals Codex*, *Water Chemicals Codex*,* and other standards considered appropriate by the state, provincial, or local agency.

Various certification organizations may be involved in certifying products in accordance with NSF/ANSI Standard 61. Individual states, provinces, or local agencies have authority to accept or accredit certification organizations within their jurisdiction. Accreditation of certification organizations may vary from jurisdiction to jurisdiction.

Annex A, “Toxicology Review and Evaluation Procedures,” to NSF/ANSI Standard 61 does not stipulate a maximum allowable level (MAL) of a contaminant for substances not regulated by a USEPA final maximum contaminant level (MCL). The MALs of an unspecified list of “unregulated contaminants” are based on toxicity testing guidelines (noncarcinogens) and risk characterization methodology (carcinogens). Use of Annex A procedures may not always be identical, depending on the certifier.

ANSI/AWWA C550 does not address additives requirements. Users of this standard should consult the appropriate state, provincial, or local agency having jurisdiction in order to

1. Determine additives requirements, including applicable standards.
2. Determine the status of certifications by parties offering to certify products for contact with, or treatment of, drinking water.
3. Determine current information on product certification.

II. Special Issues. This standard has no applicable information for this section.

III. Use of This Standard. It is the responsibility of the user of an AWWA standard to determine that the products described in that standard are suitable for use in the particular application being considered.

* Both publications available from National Academy of Sciences, 500 Fifth Street, NW, Washington, DC 20001.