American Water Works Association

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ANSI/AWWA D130-11(R19)
(Revision of ANSI/AWWA D130-02)
(Reaffirmed without Revisions)

AWWA Standard

Geomembrane Materials for Potable Water Applications

Effective date: Dec.1, 2019.
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Approved by American National Standards Institute July 19, 2019.

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Foreword

This foreword is for information only and is not a part of ANSI/AWWA D130.*

I. Introduction.

I.A. *Background*. The purpose of ANSI/AWWA D130 is to provide direction and guidance for selecting and purchasing geomembrane materials used to line or cover potable water reservoirs. The standard is based on the accumulated knowledge and experience of owners, consulting engineers, manufacturers, fabricators, and installers of geomembrane liners and floating covers. The standard should be used in conjunction with AWWA Manual M25, *Flexible-Membrane Covers and Linings for Potable Water Reservoirs*, to define suitable application for use of these materials.

I.B. *History*. In 1975, AWWA appointed a committee to study and report on the adaptability of geomembrane liners (so called flexible-membranes) and floating covers for use within the water industry. The committee presented its report at the 1975 AWWA Annual Conference. This report included a recommendation to appoint a task group to prepare a standard to describe the use of geomembrane linings and floating covers. Subsequently, the AWWA Standards Committee on Flexible Reservoir Covers and Linings for Potable Water Storage was established in June 1976. The initial goal of the committee was to prepare a manual with guidelines for design, installation, and maintenance of a geomembrane floating cover or lining, or both. The committee completed a first draft of the manual in February 1983 and submitted it for consideration by the AWWA Standards Council later that same year. The first edition of the standard, designated ANSI/AWWA D130-87, was approved by the AWWA Board of Directors on Jan. 26, 1987, and by ANSI on May 28, 1987. The second edition contained minor technical revisions and was approved on Feb. 4, 1996. Subsequent editions were approved on June 16, 2002 and June 12, 2011. This reaffirmation was approved on June 8, 2019.

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 Water Research Foundation, (formerly AwwaRF), and the Conference of State Health and Environmental Managers (COSHEM). The

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

1. Specific policies of the state or local agency.

2. Two standards developed under the direction of NSF†, NSF/ANSI 60, Drinking Water Treatment Chemicals—Health Effects, and NSF/ANSI 61, Drinking Water System Components—Health Effects.

3. Other references, including AWWA standards, *Food Chemicals Codex*, *Water Chemicals Codex*‡, and other standards considered appropriate by the state or local agency.

Various certification organizations may be involved in certifying products in accordance with NSF/ANSI 61. Individual states 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 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 D130 does not address additives requirements. Thus, users of this standard should consult the appropriate state or local agency having jurisdiction in order to

1. Determine additives requirements, including applicable standards.

2. Determine the status of certifications by all parties offering to certify products for contact with, or treatment of, drinking water.

3. Determine current information on product certification.

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

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

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

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