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Plastics piping system components and related materials

NSF International Standard/ ANSI National Standard

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Chair, Joint Committee on Plastics
c/o NSF International
789 North Dixboro Road, P.O. Box 130140
Ann Arbor, Michigan 48113-0140 USA
Phone: (734) 769-8010 Telex: 753215 NSF INTL
FAX: (734) 769-0109 E-mail: info@nsf.org
Web: http://www.nsf.org

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American National Standard
for Plastics —

Plastics piping system components and related materials

Standard Developer
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Foreword[2]

The purpose of this Standard is to establish minimum physical, performance, and health effects requirements for plastics piping system components and related materials.

In this edition of NSF/ANSI 14, the following revisions have been incorporated:

– Section 2, Normative References – Update of normative references to bring revision dates current and adding normative references.

– Section 5.5, PVC Ingredients – The physical property requirements for generic ingredients are moved from PPI Technical Report number 3 (TR-3) to PPI Technical Report number 2 (TR-2).

– Section 9.1, Table 10 – Update PE, PEX, and PB pipe and tubing test frequency and include the optional QC testing requirements for the PE pipe listed to AWWA C901 and AWWA C906 standards.

– Section 9.1 Table 12 – Update Poly (vinyl chloride) (PVC) pipe test frequency since the impact resistance test is no longer required in the current version of the ASTM D2949.

– Section 9.1 Table 13 – Update PE-water, PE-gas and PB pipe and tubing test frequency by removing the 32-degree impact test and respective footnote since it is no longer required.

– Section 9.1, Table 18 – Update Composite Pipe Test Frequency by adding a new reference standard for PEX/AL/PEX pipe (ASTM F2262).

This Standard was developed by the NSF Joint Committee on Plastics using the consensus process described in NSF Standards Development Policies and accredited by ANSI.

Suggestions for improvement of this Standard are welcome. Comments should be sent to Chair, Joint Committee on Plastics, c/o NSF International, Standards Department, PO Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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NSF/ANSI Standard
for Plastics —

Plastics piping system components and related materials

1 General

1.1 Purpose

This Standard establishes minimum physical, performance, and health effects requirements for plastic piping system components and related materials. These criteria were established for the protection of public health and the environment.

1.2 Scope

The physical, performance, and health effects requirements in this Standard apply to thermoplastic and thermoset plastic piping system components, including but not limited to pipes, fittings, valves, joining materials, gaskets, and appurtenances. The established physical, performance, and health effects requirements also apply to materials (resin or blended compounds) and ingredients used to manufacture plastic piping system components. It provides definitions and requirements for materials, ingredients, products, quality assurance, marking, and record keeping.

1.3 Materials, design, and construction

For plastic piping system components and materials cited by the references in 2, the materials, design, and construction requirements of this Standard and the applicable product standard(s) in 2 shall apply. When materials, designs, or constructions are utilized that are not cited in 2, the plastic piping system components and related materials shall comply with the applicable requirements of this Standard. Plastic piping system components and related materials that incorporate materials, designs, or constructions not cited in 2 are acceptable, provided such plastic piping system components and related materials can be demonstrated to be at least equivalent in terms of strength, quality, effectiveness, durability, and safety to those that are cited in this Standard.

2 Normative references

2.1 Normative references for plastic pipe and related components

ASME A112.14.1-2003. *Backwater Valves*[3]

ASME A112.18.6-2003. *Flexible Water Connectors*[3]

[3] American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10016-5990