



*NSF International Standard /  
American National Standard*

## NSF/ANSI 14 - 2021

Plastics Piping System Components  
and Related Materials



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NSF International Standard /  
American National Standard  
for Plastics –

# **Plastics Piping System Components and Related Materials**

Standard Developer  
**NSF International**

**Designated as an ANSI Standard**  
September 23, 2021  
**American National Standards Institute**

Prepared by  
**The NSF Joint Committee on Plastics**

Recommended for adoption by  
**The NSF Council of Public Health Consultants**

Adopted by  
**NSF International**  
October 1965

Revised February 1977  
Revised November 1983  
Revised August 1986  
Revised November 1990  
Revised December 1999  
Revised January 2003  
Revised March 2007  
Revised April 2010  
Revised March 2013  
Revised June 2016  
Revised January 2020

Revised November 1978  
Revised November 1984  
Revised October 1987  
Revised September 1996  
Revised February 2001  
Revised September 2004  
Revised May 2008  
Revised April 2011  
Revised August 2014  
Revised June 2017  
Revised December 2020

Revised November 1980  
Revised November 1985  
Revised December 1988  
Revised November 1998  
Revised January 2002  
Revised August 2006  
Revised December 2009  
Revised February 2012  
Revised May 2016  
Revised November 2018  
Revised March 2022

Published by  
**NSF International**  
PO Box 130140, Ann Arbor, Michigan 48113-0140, USA

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## **Foreword<sup>2</sup>**

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

This edition of the Standard contains the following revisions:

### **Issue 111**

This revision modifies language regarding IV of resins in Section 5.3.

### **Issue 112**

This revision updates Table 9.6: *ABS pipe testing frequency*.

### **Issue 113**

This revision updates Table 9.11a: *PEX, PE-RT, PE-water, PE-storm sewer pipe and tubing test frequency*.

### **Issue 114**

This revision updates Table 9.11b: *PE-gas pipe and fitting test frequency*.

### **Issue 115**

This revision updates Table 9.30: *PVC and PVCO pipe and fittings for underground fire service test frequency*.

### **Issue 116**

This revision updates Table 9.35: *Geothermal pipe and fittings frequency*.

### **Issue 117**

This revision updates Table 9.12: *Fittings for PE and PEX tubing test frequency*.

### **Issue 118**

This revision updates Table 9.21: *PP pipe and fittings test frequency*.

### **Issue 120**

This revision removes lines from the QC tables that no longer have values (Table 9.7: *ABS fitting test frequency*, Table 9.12: *Fittings for PE and PEX tubing test frequency*, and Table 9.37: *Corrugated polyethylene pipe and fittings for nonpressure storm sewer, land drainage and sanitary sewer applications*)

### **Issue 121**

This revision updates Table 9.13: *PVC pipe test frequency*.

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<sup>2</sup> The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

**Issue 122**

This revision updated normative references in Section 2.

**Issue 123**

This revision updates language regarding calibration / verification of inline measurement devices into Section 9.4.1.

**Issue 124**

This revision will clarify language regarding “monitoring” in Sections 5.6, 7.4, 8.2.2, and 8.3.2.

This standard was developed by the NSF Joint Committee on Plastics using the consensus process described by the American National Standards Institute.

This standard and the accompanying text are intended for voluntary use by certifying organizations, regulatory agencies, and/or manufacturers as a basis of providing assurances that adequate health protection exists for covered products.

Suggestions for improvement of this standard are welcome. This standard is maintained on a continuous maintenance schedule and can be opened for comment at any time. Comments should be sent to: Chair, Joint Committee on Plastics at [standards@nsf.org](mailto:standards@nsf.org), or c/o NSF International, Standards Department, PO Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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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. This standard provides definitions and requirements for materials, ingredients, products, quality assurance, marking, and recordkeeping. Plastic piping system components which are manufactured to one of the normative references in Section 2 and do not have integral connections specifically intended for plastic piping systems are not covered by this standard.

### 1.3 Materials, design, and construction

For plastic piping system components and materials cited by the references in Section 2, the materials, design, and construction requirements of this standard and the applicable product standard(s) in Section 2 shall apply. When materials, designs, or constructions are utilized that are not cited in Section 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 Section 2 shall be acceptable, provided that 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.