



*NSF International Standard /
American National Standard*

NSF/ANSI 46 - 2013

**Evaluation of Components and
Devices Used in Wastewater
Treatment Systems**



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NSF International Standard/
American National Standard
for Wastewater Technology —

**Evaluation of components
and devices used in
wastewater treatment systems**

Standard Developer
NSF International

NSF International Board of Directors

NSF International

Designated as an ANSI Standard
December 8, 2013

American National Standards Institute

Prepared by
The NSF Joint Committee on Wastewater Technology
The NSF Council of Public Health Consultants

Adoption by
NSF International

Adopted by
The NSF Board of Directors
November 1997

Revised May 2000
Revised May 2002
Revised October 2004
Revised September 2005
Revised January 2007
 Addendum February 2007
Revised February 2009
Revised April 2010
Revised November 2010
Revised December 2012
Revised December 2013

Published by

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

For ordering copies or for making inquiries with regard to this Standard, please reference the designation "NSF/ANSI 46-2013."

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Foreword²

The purpose of this Standard is to establish minimum materials, design and construction, and performance testing and evaluation requirements for components and devices used in wastewater treatment systems. Minimum literature requirements to be supplied by manufacturers to authorized representatives and owners are also specified.

This edition of the Standard (NSF/ANSI 46 – 2013) includes the following revisions:

Issue 22

This section of NSF/ANSI 46, *Field Longevity Verification for Septic Tank Effluent Filters*, was developed as a means to evaluate the longevity performance of filtration devices for residential gravity flow septic systems under field conditions. Establishment of a section within an American National Standard ensures a single, comprehensive method for conducting field evaluations, and enables broad acceptance of data to minimize redundant efforts. These changes are located in sections 2, 3 and the new section 11.

ANSI Procedures prohibit the inclusion of commercial terms and conditions, such as manufacturers' warranties and guarantees, in American National Standards. However, the NSF Joint Committee on Wastewater Technology has historically believed strongly that all certifiers of NSF/ANSI 46 systems should have certification program policies that contain several key elements, including requirements for warranties. It is the Joint Committee's belief that these key elements provide valuable assurance of long-term performance as well as protection of public health and the environment. To emphasize the Joint Committee's convictions on this issue, two annexes, which are not part of this Standard, were added for informational purposes and guidance. These annexes are intended to establish a uniform program by which products meeting the scope of this Standard should be certified. Annex A provides the key elements of a certification program, and annex B is a sample warranty.

This Standard was developed by the NSF Joint Committee on Wastewater Technology using the consensus process described in the American National Standards Institute.

Suggestions for improvements 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 Wastewater Technology at standards@nsf.org, or c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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NSF/ANSI Standard for Wastewater Technology –

Evaluation of components and devices used in wastewater treatment systems

1 General

1.1 Purpose

The purpose of this Standard is to establish minimum materials, design and construction, and performance requirements for components and devices used in the handling, treating, recycling, reusing, or disposal of wastewater. This Standard is intended to protect public health and the environment as well as to minimize nuisance factors.

1.2 Scope

This Standard is intended for use with components and devices not covered by other NSF wastewater standards. Components and devices covered by this Standard are intended for use with graywater or blackwater or both. Management methods for the end-products of these components and devices are not addressed in this Standard. This Standard shall in no way restrict new system designs, provided that such designs meet the minimum specifications described herein.

All devices and components meeting the scope of this Standard shall comply with all of the requirements described in 1 through 8. In addition, devices and components shall comply with the applicable subsequent section(s) contained in this Standard. Where subsequent sections of the Standard include requirements that overlap with those found in 1 through 8, the requirements of both sections shall be met unless otherwise specified in the requirements of the subsequent section.

1.3 Alternate materials, design, and construction

While specific materials, designs, and construction may be stipulated in this Standard, devices that incorporate alternate materials, designs, or construction may be acceptable when it is verified that such systems meet the applicable requirements.

2 Normative references

The following documents contain provisions that, through reference in this text, constitute provisions of this Standard. At the time of publication, the indicated editions were valid. All standards are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the standards indicated herein.

American Public Health Association (APHA), American Water Works Association (AWWA) & Water Environment Federation (WEF): *Standard Methods for the Examination of Water and Wastewater*, 21st Edition, 2005 (hereinafter referred to as *Standard Methods*)³

³ Standard Methods for the Examination of Water and Wastewater <www.standardmethods.org>.