

NSF International Standard / American National Standard

NSF/ANSI 46 - 2017

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**

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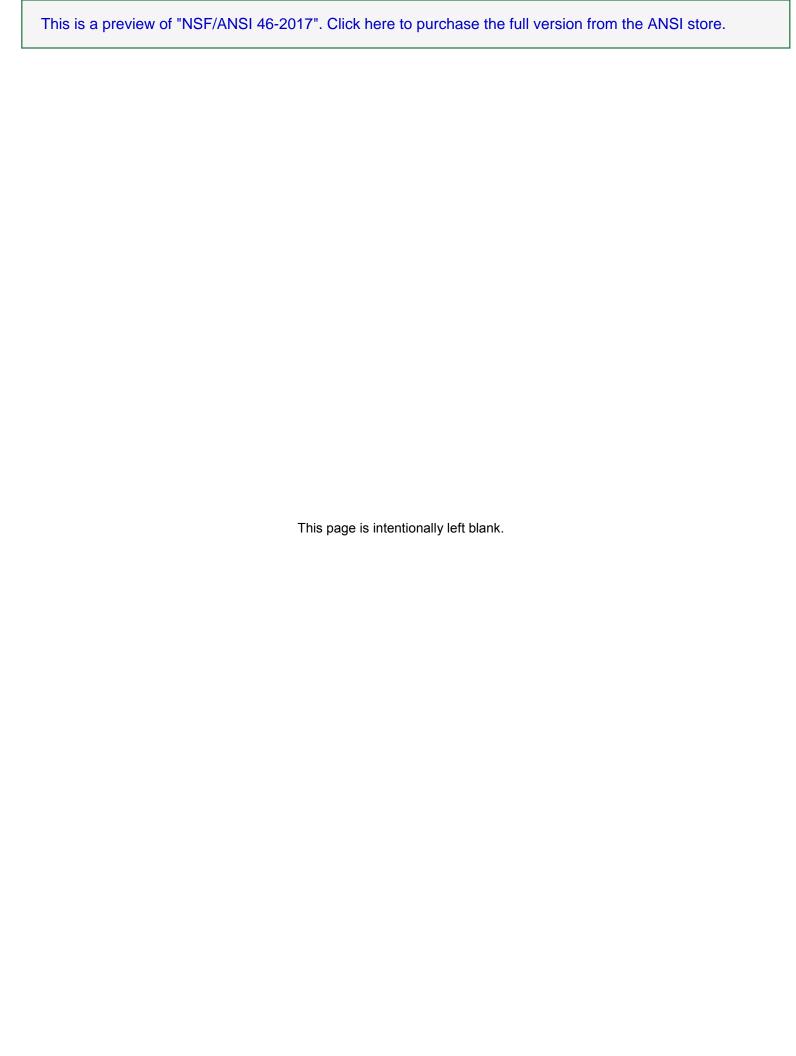
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Contents

1	General	1 1
	1.3 Alternate materials, design, and construction	1
2	Normative references	1
3	Definitions	2
4	Materials	
	4.1 Dissimilar metals	
5	Design and construction	3
	5.2 Electrical equipment	4
	5.3 Mechanical components and systems	4 4
6	Product literature	4
•	6.1 Installation manual	4
	6.2 Operation and maintenance manual	5
	6.4 Energy requirements	5
	6.5 Chemical requirements	
7	Performance testing and evaluation	
8	Final report	6
9	Grinder pumps and related components	6
	9.2 Model series classification	6
	9.3 Definitions	6
	9.5 Performance criteria for grinder pumps not utilizing wobble pump stators	10
	9.6 Design and construction	11
10	Filtration devices for residential gravity flow septic tank systems	12
	10.1 Scope	12 12
	10.3 Definitions	12
	10.4 Performance testing and evaluation of septic tank filters	12 16
	10.6 Data plate	
	10.7 Instaliation manual	17
	10.8 Operation and maintenance manual	17
	10.9 Final report	17
11	Chlorination devices	
	11.1 Scope	. 17
	11.3 Definitions	
	11.4 Design and construction	18
	11.5 Product literature	
	11.6 Performance testing and evaluation	21 24
	11.8 Performance testing and evaluation for chlorination devices intended to operate un	∠⊣ ıder
	increased hydraulic pressure	25
	11.9 Final report	26
12	Ultraviolet (UV) disinfection devices	26

12.1	Scope	26
12.2		26
12.3	Flow delivery	26
12.4		26
12.5		27
12.6		
12.7		30
12.8		erate under
12.9	Final report	33
13 Ozoi	ne generation devices	34
13.1		34
13.2		34
13.3		
13.3		
13.4		35
13.5	Product literature	36
13.6		36
Annex A	Key elements of a certification program for components and devices used in wastewat	ter treatmen
systems		
Annex B	Sample limited warranty	45
Annex C	Definitions of analytical parameters	47
Annoy D	Tost methods for the evaluation of wastewater disinfection treatment devices	51

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 includes the following revisions:

Issue 28

Section 10.9 was revised to require filter manufacturers to report and publish the measured amount of cross-sectional orifice area that exists above the normal liquid operating level.

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

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 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 greywater 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. The most recent published edition of the document shall be used for undated references.

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

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