



*NSF International Standard /
American National Standard*

NSF/ANSI 418 - 2014

(Reaffirmed 2019)

Effluent Filters - Field Longevity Testing



NSF International, an independent, not-for-profit, nongovernmental organization, is dedicated to being the leading global provider of public health and safety-based risk management solutions while serving the interests of all stakeholders.

This Standard is subject to revision.
Contact NSF to confirm this revision is current.

Users of this Standard may request clarifications and interpretations, or propose revisions by contacting:

Chair, Joint Committee on Wastewater Technology
c/o NSF International
789 North Dixboro Road, PO 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: www.nsf.org

NSF/ANSI 418 – 2014
(Reaffirmed 2019)

NSF International Standard /
American National Standard
for Wastewater Technology –
**Effluent Filters –
Field Longevity Testing**

Standard Developer
NSF International

Designated as an ANSI Standard
April 2, 2014
(Reaffirmed March 27, 2019)
American National Standards Institute

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

Adopted by
NSF International
April 2014

Reaffirmed March 2019

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 418 – 2014 (r 2019)."

Copyright 2019 NSF International

Previous editions © 2014

Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from NSF International.

Printed in the United States of America.

Disclaimers¹

NSF International (NSF), in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of NSF represent its professional judgment. NSF shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. NSF shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard. It is the responsibility of the user of this standard to judge the suitability of the ANS for the user's purpose.

NSF Standards provide basic criteria to promote sanitation and protection of public health and the environment. Provisions for mechanical and electrical safety have not been included in this Standard because governmental agencies or other national standards-setting organizations provide safety requirements.

Participation in NSF Standards development activities by regulatory agency representatives (federal, local, state) shall not constitute their agency's endorsement of NSF or any of its Standards.

Preference is given to the use of performance criteria measurable by examination or testing in NSF Standards development when such performance criteria may reasonably be used in lieu of design, materials, or construction criteria.

The illustrations, if provided, are intended to assist in understanding their adjacent standard requirements. However, the illustrations may not include all requirements for a specific product or unit, nor do they show the only method of fabricating such arrangements. Such partial drawings shall not be used to justify improper or incomplete design and construction.

At the time of this publication, examples of programs and processes were provided for general guidance. This information is given for the convenience of users of this standard and does not constitute an endorsement by NSF International. Equivalent programs and processes may be used.

Unless otherwise referenced, the annexes are not considered an integral part of NSF Standards. The annexes are provided as general guidelines to the manufacturer, regulatory agency, user, or certifying organization.

¹ The information contained in this Disclaimer is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. Therefore, this Disclaimer 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.

This page is intentionally left blank.

Contents

1	General	1
1.1	Purpose.....	1
1.2	Scope.....	1
2	Normative references	1
3	Definitions	1
4	Selection of systems.....	2
4.1	Number of systems.....	2
4.2	System requirements.....	2
4.3	Field site screening audits	3
5	Filter performance evaluation	3
5.1	Pre-evaluation assessment	3
5.2	Schedule of evaluation	4
5.3	Field observations / measurements.....	4
5.4	Mature filter flow through measurement	5
5.5	Alternative continuous liquid level monitoring.....	5
6	Evaluation of effluent filter field performance	5
7	Evaluation of data	6
8	Reporting	6

This page is intentionally left blank.

Foreword²

The purpose of this Standard is to establish minimum requirements for materials, design, construction, and performance of drinking water treatment units that are designed to reduce specific aesthetic-related contaminants in public or private water supplies. This Standard specifies the minimum product literature and labeling information that a manufacturer must supply to authorized representatives and system owners. Lastly, the Standard provides minimum service-related obligations that the manufacturer must extend to system owners.

This edition of the Standard contains the following revisions:

Issue 3

This Standard was reaffirmed.

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, PO Box 130140, Ann Arbor, Michigan 48113-0140, USA.

² 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. Therefore, 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.

This page is intentionally left blank.

NSF/ANSI Standard For Wastewater Technology – Effluent Filters – Field Longevity Testing

1 General

1.1 Purpose

The purpose of this Standard is to establish consistent site selection and data evaluation methods for obtaining field longevity results for septic tank effluent filters.

1.2 Scope

This Standard provides site selection, auditing, and methods for evaluating the field performance as it relates to longevity of septic tank effluent filters.

Only septic tank effluent filters that are certified in accordance with the current version of NSF/ANSI 46 may be certified under this Standard. An effluent filter that has completed third-party testing in compliance with an evaluation, certification, and listing protocol equivalent to NSF/ANSI 46 shall be acceptable, provided all data pursuant to the testing is published and the results verify that the device is capable of performance as defined in NSF/ANSI 46.

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 of the Standards are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the Standards indicated below. The most recent published edition of the document shall be used for undated references.

ASTM C-1227-12, *Standard Specification for Precast Concrete Septic Tanks*³

NSF/ANSI 46, *Evaluation of components and devices used in wastewater treatment systems, Section 10 – Filtration devices for residential gravity flow septic tank systems*

3 Definitions

The following are definitions of terms used in this document:

3.1 manufacturer: The entity that develops, designs, and produces septic tank effluent filters.

3.2 residential: Single family dwellings, occupied on a year-round basis.

³ ASTM International. 100 Barr Harbor Dr., West Conshohocken, PA 19428. <www.astm.org>