

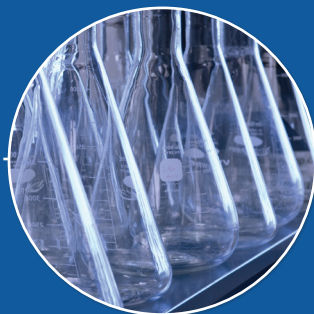
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*NSF International Standard /  
American National Standard*

## NSF/ANSI 53 - 2018

### Drinking Water Treatment Units - Health Effects



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Chair, Joint Committee on Drinking Water Treatment Units  
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](mailto:info@nsf.org)  
Web: [www.nsf.org](http://www.nsf.org)

**NSF/ANSI 53 – 2018**

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American National Standard  
for Drinking Water Treatment Units –  
**Drinking Water Treatment Units –  
Health Effects**

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## Contents

1	General .....	1
1.1	Purpose.....	1
1.2	Scope.....	1
1.3	Alternate materials, designs, and construction.....	1
1.4	Minimum requirements .....	1
1.5	Chemical and mechanical reduction performance claims .....	2
1.6	Treatment train.....	2
1.7	Standard review.....	2
2	Normative references .....	2
3	Definitions .....	3
4	Materials .....	3
4.1	Materials in contact with drinking water .....	3
4.2	Materials evaluation.....	4
4.3	Gas chromatography / mass spectroscopy (GC/MS) analysis.....	6
4.4	Materials in contact with the user's mouth.....	8
5	Structural performance .....	12
5.1	Structural integrity.....	12
5.2	Acceptance .....	12
5.3	Working pressure.....	14
5.4	Structural integrity test methods .....	14
6	Minimum performance requirements.....	18
6.1	Performance indication of chemical reduction capacity.....	18
6.2	Elements .....	19
6.3	Flow control.....	19
6.4	Waste connections.....	20
6.5	Product water dispensing outlets.....	20
6.6	Hazards.....	20
6.7	Systems used in bottled water plants .....	20
6.8	Operation temperature.....	20
6.9	POE rated pressure drop.....	20
6.10	Minimum service flow.....	21
6.11	Rated service flow.....	21
6.12	Active agents and additives .....	21
7	Elective performance claims – Test methods.....	22
7.1	General requirements .....	22
7.2	Chemical reduction claims.....	24
7.3	Mechanical filtration reduction claims .....	44
7.4	Metals reduction testing .....	59
7.5	Microcystins reduction claims .....	84
8	Instruction and information .....	87
8.1	Installation, operation, and maintenance instructions.....	87
8.2	Data plate.....	89
8.3	Replacement components .....	92
Annex A	Test method for detecting and enumerating <i>Cryptosporidium parvum</i> oocysts .....	101
A.1	Summary of method.....	101
A.2	Equipment.....	101
A.3	Reagents.....	102

A.4	Safety .....	102
A.5	Enumeration of stock oocyst suspension .....	103
A.6	Procedure .....	104
A.7	Quality control .....	106
A.8	Analyst verification .....	109
Annex B	Test method for detecting and enumerating polystyrene microspheres.....	111
B.1	Summary of method.....	111
B.2	Equipment.....	111
B.3	Reagents.....	111
B.4	Enumeration of stock microspheres .....	111
B.5	Procedure .....	112
B.6	Quality control .....	114
B.7	Analyst verification .....	116
Annex C	.....	119
C.1	Example fact section for pentavalent arsenic treatment systems .....	119
C.2	Example fact section for arsenic treatment systems .....	120
Annex D	Key elements of a certification program for drinking water treatment systems and components .....	121
D.1	Marking the product .....	121
D.2	Listing certified companies .....	121
D.3	Annual audits .....	121
D.4	Testing .....	122
D.5	Toxicological evaluation of materials formulations .....	122
D.6	Corrective action .....	122
D.7	Enforcement.....	122
D.8	Administrative review.....	122
D.9	Appeals .....	122
D.10	Complaints .....	123
D.11	Advertising .....	123
D.12	Records.....	123
D.13	Public notice.....	123
D.14	Confidentiality .....	123
Annex E	.....	125
Annex F	Test method for evaluating mouth drawn water treatment units .....	127
F.1	Scope and Purpose .....	127
F.2	Method .....	127
F.3	Sampling.....	127
Annex G	Test method for evaluating squeeze bottle drinking water treatment units .....	131
G.1	Scope and purpose.....	131
G.2	Method – Mechanical gripper apparatus .....	131
G.3	Alternate method – Pressurized bottle.....	132
G.4	Sampling .....	132
G.5	Active agent stagnation sample.....	132
Annex H	Methods and procedures to minimize premature filter plugging.....	135
H.1	Mechanical filtration component of tested system.....	135
H.2	Mechanical filtration of waters .....	135
H.3	Disinfection and cleaning of test apparatus .....	135
H.4	Antimicrobial treatment .....	136
H.5	Methanol used as carrier solvent.....	136
H.6	Operational cycle .....	137



Annex I	Evaluation methods for systems with multiple technologies – Treatment train .....	139
I.1	Requirements for the evaluation of a system containing multiple, sequential treatment technologies .....	139
I.2	Example application of treatment train option B .....	140
I.3	Example application of treatment train option C .....	141
Annex J	Preparation of TOC solution using tannic acid .....	143
J.1	Scope and purpose .....	143
J.2	Method summary .....	143
J.3	Safety .....	143
J.4	Apparatus and equipment .....	143
J.5	Reagents .....	143
J.6	Solution preparation .....	144
Annex K	145	
Annex L	Test method for PFOA (perfluorooctanoic acid) and PFOS (perfluorooctanesulfonate) in general test water by LC/MS/MS in electrospray negative ionization mode .....	147
L.1	Summary of method .....	147
L.2	Definitions .....	147
L.3	Standards for PFOA/PFOS analysis .....	147
L.4	Preparation for PFOA/PFOS instrumental analysis .....	149
L.5	Apparatus and conditions for PFOA/PFOS analysis .....	150
L.6	Sample analysis .....	151
L.7	Quality control .....	151
Annex M	Revision to the evaluation of lead .....	153
Interpretation Annex	.....	155

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## Foreword<sup>2</sup>

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of drinking water treatment systems that are designed to reduce specific health-related contaminants in public or private water supplies. NSF/ANSI 53 specifies minimum product literature requirements that manufacturers must provide to authorized representatives and owners.

This edition of the Standard contains the following revisions:

### Issue 109

This revision adds an asbestos reduction protocol for batch treatment systems under Section 7.3.1.

### Issue 112

The revision addresses inconsistent language across the scopes of the DWTU Standards and adds clarifying language on systems that include components or functions covered under other NSF Standards.

### Issue 113

This revision adds clarification to the product literature requirements under Section 8.3 for replacement components.

### Issue 114

This revision adds a performance reduction claim for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) for drinking water treatment devices that use activated carbon adsorption.

### Issue 116

Informational Annex M was notify the user of an upcoming ballot in 2019 to revise the current pass/fail criteria for lead reduction from 10 µg/L to 5 µg/.

This Standard was developed by the NSF Joint Committee on Drinking Water Treatment Units 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 Drinking Water Treatment Units 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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## NSF/ANSI Standard for Drinking Water Treatment Units —

# Drinking Water Treatment Units — Health Effects

## 1 General

### 1.1 Purpose

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of point-of-use and point-of-entry drinking water treatment systems that are designed to reduce specific health-related contaminants in public or private water supplies. Such systems include point-of-entry drinking water treatment systems used to treat all or part of the water at the inlet to a residential facility or a bottled water production facility, and includes the material and components used in these systems. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service related obligations that the manufacturer shall extend to system owners.

### 1.2 Scope

The point-of-use and point-of-entry systems addressed by this Standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this Standard are intended to reduce substances that are considered established or potential health hazards. They may be chemical or particulate (including filterable cysts) in nature. It is recognized that a system may be effective in controlling one or more of these contaminants, but systems are not required to control all. Systems with manufacturer claims that include components or functions covered under other NSF or NSF/ANSI Standards or Criteria shall conform to the applicable requirements therein. Systems covered by this Standard are not intended to be used with drinking water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

NOTE — Systems that are compliant with NSF/ANSI 55 Class A or other standards that cover technologies to treat microbiologically unsafe water (e.g., US EPA Guide Standard and Protocol for Testing Microbiological Water Purifiers or NSF P231) are examples of demonstrating adequate disinfection before or after the system.

### 1.3 Alternate materials, designs, and construction

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

### 1.4 Minimum requirements

A system as defined in this Standard shall meet the applicable requirements of Sections 4, 5, 6, and 8, plus at least one performance claim as described in Section 7.

A component as defined in this Standard shall meet the requirements of Sections 4 and 8. If the component is pressure bearing, it shall also meet the applicable requirements of Section 5.