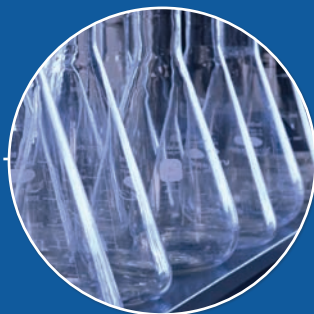




*NSF International Standard /  
American National Standard*

## NSF/ANSI 42 - 2010

Drinking Water Treatment Units -  
Aesthetic Effects



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NSF International Standard/  
American National Standard  
for Drinking Water Treatment Units –

**Drinking water treatment units –  
Aesthetic 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	Chemical and mechanical reduction performance claims .....	1
1.5	Minimum requirements.....	2
2	Normative references .....	2
3	Definitions .....	3
4	Materials .....	6
4.1	Materials in contact with drinking water .....	6
4.2	Materials evaluation .....	7
4.3	Gas chromatography/mass spectroscopy (GC/MS) analysis .....	8
	Table 1 – Extraction testing parameters .....	9
	Table 2 – Formulation dependent extraction testing parameters .....	11
	Table 3 – Materials listed in U. S. Code of Federal Regulations, Table 4 – Non-specific extraction testing parameters.....	14
5	Structural performance .....	14
5.1	Structural integrity .....	14
5.2	Acceptance .....	14
5.3	Working pressure .....	15
5.4	Structural integrity test methods .....	15
	Table 5 – Structural integrity testing requirements .....	19
6	Minimum performance requirements.....	20
6.1	Elements .....	20
6.2	Waste connections.....	20
6.3	Product water dispensing outlets .....	20
6.4	Hazards.....	21
6.5	Operation temperature .....	21
6.6	Electrical safety and operation.....	21
6.7	Rated service flow.....	21
6.8	POE rated pressure drop .....	21
6.9	Minimum service flow.....	21
	Table 6 – Minimum service flow.....	22
6.10	Active agents and additives.....	22
6.11	Media.....	23
7	Elective performance claims – test methods.....	24
7.1	General requirements .....	24
7.2	Bacteriological performance .....	26
7.3	Chemical reduction testing.....	27
	Table 7 – Chemical reduction requirements .....	28
	Table 8 – Chloramine reduction requirements.....	30
	Table 9 – Chlorine reduction.....	34
	Table 10 – Hydrogen sulfide and phenol reduction requirements .....	36
	Table 11 – Iron and manganese reduction requirements .....	38
	Table 12 – pH adjustment requirements.....	40
	Table 13 – Zinc reduction requirements .....	42
7.4	Mechanical reduction testing .....	44
	Table 14 – Nominal particulate reduction (85%) classes.....	44

Table 15 – Test dust specifications for nominal particulate reduction (85%) .....	45
7.5 Scale control testing.....	46
Table 16 – Additives intended for scale control .....	47
8 Instruction and information .....	48
8.1 Installation, operation, and maintenance instruction.....	48
8.2 Data plate.....	49
8.3 Replacement components .....	50
8.4 Performance data sheet.....	51
Table 17 – Performance data sheet reduction claims .....	53
Table 18 – Performance data sheet reduction claims .....	53
Annex A .....	A1
A.1 Marking the product .....	A1
A.2 Listing certified companies.....	A1
A.3 Annual audits .....	A1
A.4 Testing .....	A2
A.5 Toxicological evaluation of materials formulations .....	A2
A.6 Corrective action .....	A2
A.7 Enforcement.....	A2
A.8 Administrative review .....	A2
A.9 Appeals .....	A2
A.10 Complaints.....	A3
A.11 Advertising.....	A3
A.12 Records .....	A3
A.13 Public notice .....	A3
A.14 Confidentiality.....	A3
Annex B .....	B1
B.1 Summary of method.....	B1
B.2 Equipment and materials .....	B1
B.3 Reagents and consumable materials.....	B1
B.4 Safety .....	B3
B.5 Procedure.....	B4
B.6 Data analysis.....	B4
B.7 Quality control .....	B4
B.8 References.....	B6



## Foreword<sup>2</sup>

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 67

This revision corrected an error that occurred during the reformatting of NSF/ANSI 42. The following note was deleted from tables 7.3.1.5.1, 7.3.6.6.1, & 7.3.4.6.1:

NOTE – If precipitation of heavy metals occurs, deionized water shall be substituted for the public water supply, magnesium or calcium salts shall be added to provide the desired TDS, the TOC requirements shall be waived, and the pH requirement shall be modified accordingly.

### Issue 68

This revision clarified the rated service flow requirement in 6.7 by not allowing a rated service flow to be greater than the required minimum service flow.

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. Comments should be sent to Chair, Joint Committee on Drinking Water Treatment Units, c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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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. 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.

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## NSF/ANSI Standard for Drinking Water Treatment Units –

# Drinking water treatment units – Aesthetic 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 drinking water treatment systems that are designed to reduce specific aesthetic-related (non-health effects) contaminants in public or private water supplies. 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 affecting the aesthetic quality of the water or to add chemicals for scale control, or both. Substances may be soluble or particulate in nature at concentrations influencing public acceptance of the drinking water. It is recognized that a system may be effective in controlling one or more of these substances but is not required to control all. Systems with components or functions covered under other NSF or NSF/ANSI standards or criteria shall conform to the applicable requirements therein.

### 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 Chemical and mechanical reduction performance claims

**1.4.1** All NSF/ANSI 42 performance claims shall be verified and substantiated by test data generated under the requirements of NSF/ANSI 42.

**1.4.2** When performance claims are made for substances not specifically addressed in the scope of this Standard or for substances not specifically addressed but falling under the scope of NSF/ANSI 42, such claims shall be identified as not specifically addressed in the Standard.