



*NSF International Standard /
American National Standard*

NSF/ANSI 42 - 2015

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**

Standard Developer
NSF International

NSF International
Designated as an ANSI Standard
May 11, 2015
American National Standards Institute

Prepared by
The NSF Joint Committee on Drinking Water Treatment Units

Recommended for adoption by
The NSF Council of Public Health Consultants

Adopted by
The NSF Board of Directors
March 1973

Revised June 1982
Revised June 1988
Revised September 1996
Revised September 1997
Revised November 1998
Revised September 1999
Revised July 2000
Revised November 2000
Revised January 2001
Revised January 2002
 Addendum 1.0 – June 2002
 Addendum 2.0 – October 2002
 Editorial revision, November 2003
 Addendum 1.0 – August 2004

Revised April 2005
 Editorial revision, June 2005
Revised July 2007
Revised October 2007
 Addendum – March 2008
Revised August 2009
Revised February 2011
Revised February 2012
Revised December 2012
Revised December 2013
Revised January 2015
Revised October 2015

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 42 – 2015."

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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 73

This revision updated the usage pattern specified for nonplumbed pour-through-type batch treatment systems when no manufacturer's recommended use pattern is given.

Issue 82

This revision harmonized the structural integrity requirements in Table 5 of NSF/ANSI 42, NSF/ANSI 44 and NSF/ANSI 53.

Issue 83

This revision added clarification regarding the maximum number of samples exposed in the Materials evaluation under section 4.

Issue 84

This revision added criteria for utilizing a treatment train approach for the evaluation of a system containing multiple, sequential treatment technologies.

Issue 85

This revision prohibits the use of chloramine-T as a source compound for chloramine reduction.

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, 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 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.

1.5 Minimum requirements

This Standard establishes minimum requirements.