



*NSF International Standard /
American National Standard*

NSF/ANSI 12 - 2023

Automatic Ice Making Equipment



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for Food Equipment –
Automatic Ice Making Equipment

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time	second	s
	minute	min
	hour	h
	day	d
	week	wk
	month	mo
	year	yr
length	inch	in
	foot	ft
	yard	yd
	micrometer	µm
	nanometer	nm
	millimeter	mm
	centimeter	cm
	meter	m
	kilometer	km
liquid measure	milliliter	mL
	liter	L
	liters per day	LPD
	liters per minute	LPM
	ounce	oz
	pint	pt
	quart	qt
	gallon	gal
	gallons per minute	GPM
	gallons per day	GPD
weight	microgram	µg
	picogram	pg
	nanogram	ng
	milligram	mg
	centigram	cg
	gram	g
	kilogram	kg
	pound	lb
	ton	t
	metric ton	mt
miscellaneous	colony-forming units	cfu
	pounds per square inch	psi

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Foreword²

NSF/ANSI 12 establishes minimum food protection and sanitation requirements for the materials, design, manufacture, and performance of automatic ice making equipment and their related components.

The requirements established in this standard are intended to be consistent with the Food Code, recommendations of the U.S. Public Health Service, Food and Drug Administration.

This edition of the standard contains the following revisions:

Issue 13

This revision updates the edition for IEEE/ASTM SI 10 from 2010 to 2016 in the normative references (Section 2).

Issue 14

This revision updated the terms IPC and in-place-cleaning to CIP in Sections 5.1, 6.2, and N-1.1. Please note that the new term CIP is *not* an acronym.

Issue 15

This revision updates the boilerplate introductory language for Section 2: *Normative references*.

Issue 16

This revision adds language regarding equipment mounting as Sections 5.19.6 and 5.19.7.

This standard was developed by the NSF Joint Committee on Food Equipment 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 Food Equipment at standards@nsf.org or, c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, Michigan 48113-0140, U.S.A.

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NSF/ANSI Standard for Food Equipment – Automatic Ice Making Equipment

1 General

1.1 Purpose

This standard establishes minimum food protection and sanitation requirements for the materials, design, construction, and performance of automatic ice making equipment and their related components.

1.2 Scope

This standard contains requirements for automatic ice making equipment and devices used in the manufacturing, processing, storing, dispensing, packaging, and transportation of ice intended for human consumption. This standard does not apply to equipment used solely in the manufacturing of block ice.

Automatic ice making equipment components and materials covered under other NSF or NSF/ANSI standards or criteria shall also comply with the requirements therein. This standard is not intended to restrict new unit design, provided that such design meets the minimum specifications described herein.

1.3 Alternate materials, design, and construction

While specific materials, design, and construction may be stipulated in this standard, equipment that incorporates alternate materials, design, or construction may be acceptable when such equipment meets the intent of the applicable requirements herein.

1.4 Measurement

Decimal and SI conversions provided parenthetically shall be considered equivalent. Metric conversions and significant figure rounding have been made according to IEEE/ASTM SI 10.³

2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this standard. At the time of publication, the indicated editions listed below were valid. All of the documents are subject to revision and parties are encouraged to investigate the possibility of applying the most recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

40 C.F.R. § 152.500, *Requirements for devices (Pesticide Registration and Classification Procedures)*⁴

40 C.F.R. Parts 162-180, *Federal Insecticide, Fungicide, and Rodenticide Act*⁴

³ Institute of Electrical and Electronics Engineers, Inc. 3 Park Avenue, New York, NY 10016. <www.ieee.org>

⁴ National Archives and Records Administration, Office of the Federal Register. 7 G Street NW, Suite A-734, Washington, DC 20401. <www.ecfr.gov>