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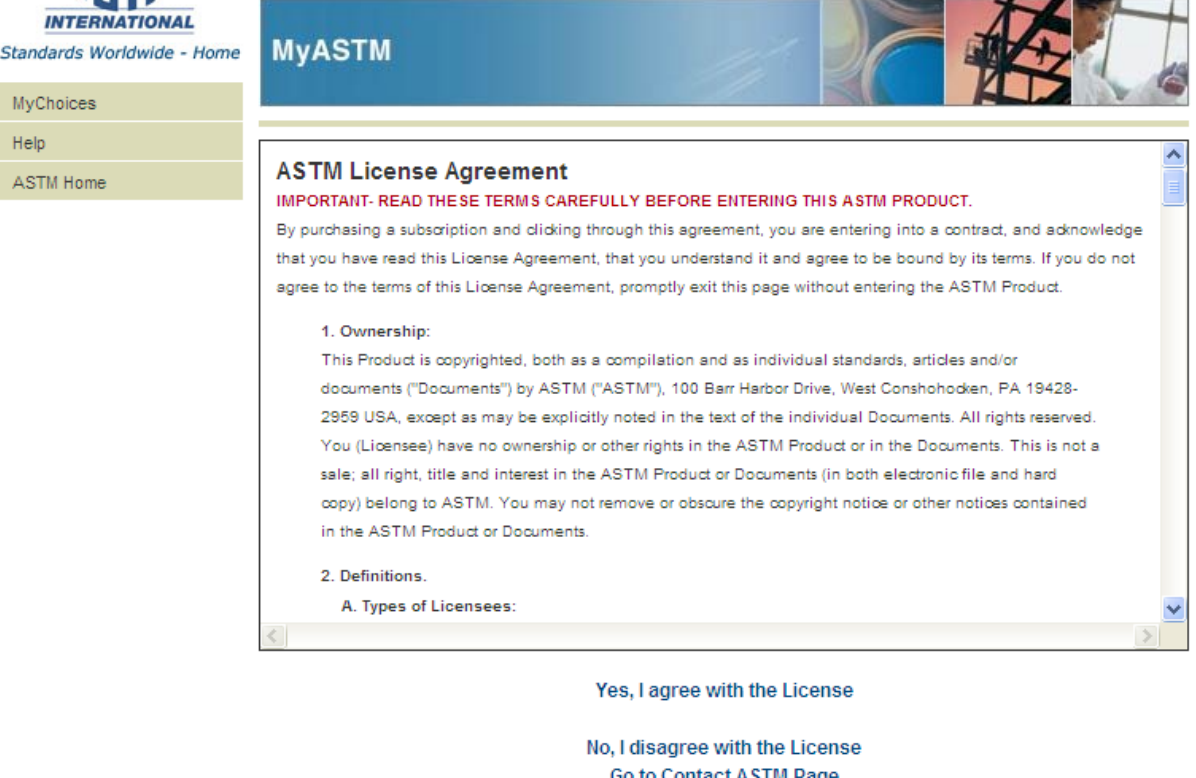
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ASTM D1068 - 10

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Significance and Use

Iron is the second most abundant metallic element in the earth's crust

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ASTM Designation: D1068 – 10

Standard Test Methods for Iron in Water¹

This standard is issued under the designation D1068; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript asterisk (*) indicates an editorial change since the last revision or approval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope*

1.1 These test methods cover the determination of iron in water. Procedures are given for determining total iron, dissolved iron, and ferrous iron. Undissolved iron may be calculated from the total iron and dissolved iron determinations. The test methods are given as follows:

Test Method	Range	Sections
Test Method A—Atomic Absorption, Direct	0.1 to 0.5 mg/L	7 to 10
Test Method B—Atomic Absorption, Graphite Furnace	0 to 100 µg/L	17 to 20
Test Method C—Photometric, Bathophenanthroline µg/L	0 to 1000 µg/L	27 to 30

1.2 It is the user's responsibility to ensure the validity of these test methods to waters of untested matrices.

1.3 The chelation-extraction and two former photometric test methods were discontinued. See *Appendix X2* for historical information.

1.4 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. Specific hazard statements are given in *Note 3*, *11.7.1*, and *X1.1.2*.

2. Referenced Documents

2.1 ASTM Standards:²

D858 Test Methods for Manganese in Water
D1066 Practice for Sampling Seawater

D1129 Terminology Relating to Water
D1193 Specification for Reagent Water
D1687 Test Methods for Chromium in Water
D1688 Test Methods for Copper in Water
D1691 Test Methods for Zinc in Water
D1886 Test Methods for Nickel in Water
D2777 Practice for Determination of Precision and Bias of Applicable Test Methods of Committee D19 on Water
D3570 Practice for Sampling Water from Closed Conduits
D3558 Test Methods for Cobalt in Water
D3559 Test Methods for Lead in Water
D3919 Practice for Measuring Trace Elements in Water by Graphite Furnace Atomic Absorption Spectrophotometry
D4841 Practice for Estimation of Holding Time for Water Samples Containing Organic and Inorganic Constituents
D5810 Guide for Spiking into Aqueous Samples
D5847 Practice for Writing Quality Control Specifications for Standard Test Methods for Water Analysis
E90 Practice for Analysis of Metals, Ores, and Related Materials by Molecular Absorption Spectrometry
E275 Practice for Describing and Measuring Performance of Ultraviolet and Visible Spectrophotometers

3. Terminology

3.1 **Definitions:** For definitions of terms used in these test methods, refer to Terminology D1129.

3.2 **Definitions of Terms Specific to This Standard:**

3.2.1 **total recoverable iron, n**—an arbitrary analytical term relating to the recoverable forms of iron that are determinable by the digestion method which is included in these test methods.

4. Significance and Use

4.1 Iron is the second most abundant metallic element in the earth's crust and is essential in the metabolism of plants and animals. If present in excessive amounts, however, it forms oxyhydroxide precipitates that stain laundry and porcelain. As a result, the recommended limit for iron in domestic water supplies is 0.3 mg/L. These test methods are useful for determining iron in many natural waters.

¹ These test methods are under the jurisdiction of ASTM Committee D19 on Water and are the direct responsibility of Subcommittee D05.02 on Inorganic Constituents in Water.



























Current edition approved Sept. 1, 2010. Published October 2010. Originally approved in 1965. Last previous edition approved in 2005 as D1068 – 05². DOI: 10.1520/D1068-10

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Technical Summary page on the ASTM website.

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 **Designation: ~~D1068-05~~¹ Designation: D1068 – 10** An American National Standard

Standard Test Methods for Iron in Water¹

This standard is issued under the fixed designation D1068; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.


¹NOTE—Warning notes were moved into the text editorially in July 2005.

1. Scope*Scope*

1.1 These test methods cover the determination of iron in water. Procedures are given for determining total iron, dissolved iron, and ferrous iron. Undissolved iron may be calculated from the total iron and dissolved iron determinations. The test methods are given as follows:

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