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ASTM 組織介紹



組織介紹

- ASTM International 國際標準組織
- 前身為美國材料暨測試協會

American Society For Testing and Materials



Charles Benjamin Dudley

組織介紹

- 成立於1898年，是世界上最早、最大的非營利性標準制定組織；2001年改名為ASTM International
- 任務是制訂材料、產品、系統和檢測服務的標準及促進有關知識的發展。

組織介紹

- 主要制定140多個專業領域的標準
- 有34000名會員，來自136個國家的生產者、消費者、政府機關和學術代表
- 經常組織學術討論會，舉辦實驗室專題活動，召開標準編制會議等

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- 雲林科技大學



ASTM標準在台灣

- 台灣經濟部標準檢驗局於2005年與ASTM簽署協議備忘錄
- 台灣省土木技師公會 → ASTM A6，A673，A709，A992
- 榮科實業(CyberTek) → ASTM F1856，ASTM F2036
- 佳世達(Qisda) → ASTM D7386，ASTM D996
- 長榮航太科技 → ASTM D429，ASTM D95
- 華航 → ASTM B117-09，B244-09，D4052-09
- 全國公證(Intertek Testing Services) → ASTM E2149-10

.....還有更多



主題分類

- 鋼鐵產品
- 有色金屬
- 金屬材料試驗方法及分析程式
- 建設材料
- 石油產品、潤滑劑及礦物燃料
- 油漆、相關塗料和芳香族化合物
- 紡織品及材料

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- 塑膠 & 橡膠
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- 水和環境技術
- 核能，太陽能
- 醫療設備和服務
- 儀器儀錶及一般試驗方法
- 通用工業產品、特殊化學製品和消耗材料

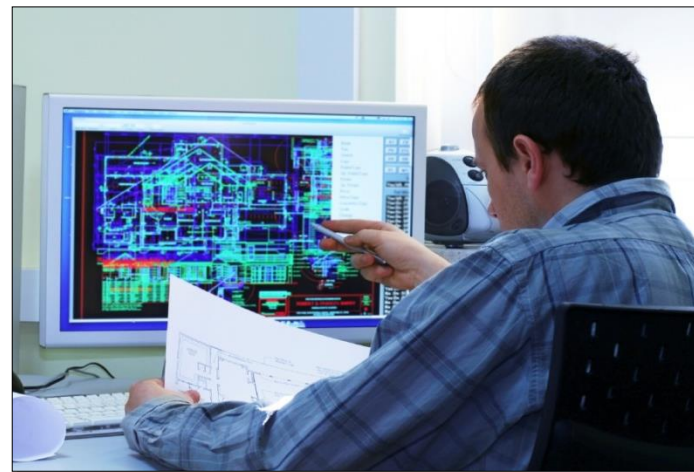
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標準介紹

- 標準是公開的文件，通過認可的機構，制定了規範和程序。
- 目的是確保材料、產品、方法或服務內容能符合預期目標並一貫的執行。
- 標準化的過程，是包含標準文件的開創、發展和應用。
- 標準是一種共同的語言，確定和建立品質。如果程序標準化，成本也會因此降低。

標準型式

- 技術規範(Technical Specification)
- 指南(Guidance)
- 試驗方法與報告(Test Method & Report)
- 分類法(Classification)
- 標準慣例(Standard Practice)
- 術語(Terminology)

標準編號

■ 標準代號+字母分類代碼+標準序號+制定年份

■ 示例：

ASTM A34-2001

ASTM C685/C685M-2001

ASTM D4595-86 (2001) ASTM F2090-01a

■ 說明：

1. 標準序號後帶字母M的為公制單位標準，不帶字母M的為英制單位標準；
2. 制定年限後面括弧內的年代為標準重新審定的年代；
3. a.b.c.....表示修訂版次。
4. 字母分類代碼見「標準分類」

標準編號

- A: 黑色金屬 Ferrous Metals (鐵，錳，鉻，合金鋼，鋼鐵等)
- B: 有色金屬 Non-ferrous Metals (銅，鋁，粉末冶金材料，導線等)
- C: 水泥，陶瓷，混凝土與磚石材料 Cementitious, Ceramic, Concrete and Masonry Materials
- D: 其他各種材料 Miscellaneous Materials (石油產品，燃料，低強塑膠等)
- E: 雜類 Miscellaneous Subjects (金屬化學分析，耐火試驗，無損試驗，統計方法等)
- F: 特殊用途材料 Materials for Specific Applications (電子材料，防震材料，外科用材料等)
- G: 材料的腐蝕，變質與降級 Corrosion, Deterioration, and Degradation of Materials

ASTM 標準資料庫

- 超過13,000份現行(Active)的技術標準
- 38,000份歷史(Historical)標準,
3,300份廢止(Withdrawn)標準
- 約有35%的標準文件每年會進行修改
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期刊

- ASTM國際期刊(JAI) 2004~2012
- 測試與評估雜誌(JTE) 1973~至今
- 岩土技術測試雜誌(GTJ) 1978~至今
- 複合材料技術與研究雜誌(JCTR) 1978~2003
- 水泥、混凝土與混合物(JCCA) 1979~2004
- 法醫學雜誌(JFS) 1972-2005
- ➡ 土木工程材料發展雜誌(ACEM) **NEW!**
- ➡ 材料的性能及特徵雜誌(MPC) **NEW!**



專業技術報告

- 收錄ASTM技術委員會主辦的研討會內容，反應全球最新研究結果，並提供制訂新標準的技術及見解。
- 累積超過13,000份文獻
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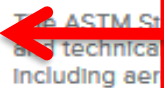
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Active Standard (Latest Version)

1.1 This test method covers the quantitative determination of ferrous oxide (FeO) by oxidation of ferrous iron (Fe⁺⁺) in an acid solution to the ferric state (Fe⁺⁺⁺) and titration with potassium dichromate using diphenylamine as the indicator. 1.2 This test method is applicable to synthetic black iron oxide, natural black iron oxide, magnetite or

標準文獻介紹

文獻標題

ASTM D1068-10 Standard Test Methods for Iron in Water

Active Standard (Latest Version)

摘要

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: Range Sections Test Method A—Atomic Absorption, Direct 0.1 to 5.0 mg/L 7 to 16 Test Method B—Atomic ... More

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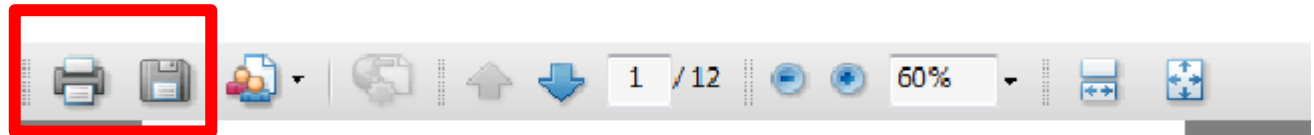
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Designation: D1068 – 10

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 approval. A superscript epsilon (ϵ) 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 5.0 mg/L	7 to 16
Test Method B—Atomic Absorption, Graphite Furnace	5 to 100 μ g/L	17 to 26
Test Method C—Photometric Bathophenanthroline μ g/L	40 to 1000 μ g/L	27 to 38

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 applica-

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

D3370 Practices 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

E60 Practice for Analysis of Metals, Ores, and Related Materials by Spectrophotometry

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.



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Berube, Keith A.
Dept. of Mechanical Engineering, AEWC Advanced Stru

Lopez-Anido, Roberto A.
*Dept. of Civil and Environmental Engineering, AEWC Ad
Orono, ME*

(received February 2012; accepted 20 December 2012)

Abstract

The effects of the resin curing recipe and ambient processing temperature on the material properties of composite laminates were investigated. Woven glass fiber reinforced epoxy plates were fabricated with a pliable-bag vacuum assisted resin transfer molding over a range of ambient temperatures and resin gel times compared to standard composite parts for the marine industry. Standardized te

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