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## ASTM COMPASS資料庫

涵堂資訊有限公司

國立高雄科技大學

# 簡報大綱

- ASTM組織簡介
- 標準文件介紹
- ASTM COMPASS收錄內容介紹
- 檢索技巧與個人化功能設定



# ASTM international 國際標準組織



ASTM INTERNATIONAL  
Helping our world work better



## 組織介紹

- ASTM international 國際標準組織 成立於1898年
- 世界上最早、最大的非營利性標準制定組織。
- 前身為美國材料暨測試學會 American Society of Testing and Materials
- 創辦人為 Charles Benjamin Dudley
- 全球都在使用ASTM標準
- 任何志願者都能成為ASTM會員並參與標準制訂
- 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。



**12,500+**  
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**30,000+**  
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Members

**140+**  
Participating  
Countries

**120**  
Years of  
Operation

# ASTM 技術標準涵蓋領域

- Aerospace & Shipbuilding 航空&造船
- Agriculture 農業
- Asset Management 資產管理
- Automotive 自動機械
- Building & Construction 建築&建設
- Chemicals 化學
- Consumer Products 消費者產品
- Energy & Utilities 能源&公營事業
- Environment 環境
- Food Processing 食品加工
- Health Care & Medical Devices 健康照護及醫療設備
- Information Technology & Telecommunication 資訊科技&電信
- Manufacturing 製造
- Metals 金屬
- Mining & Mineral Processing 採礦&礦物加工
- Oil & Gas 石油&天然氣
- Pulp & Paper 紙漿&紙張
- Quality 品質
- Safety & Security 安全&防護
- Services 服務
- Sports & Leisure 運動&休閒
- Textiles & Leather 紡織品& 皮革製品
- Transportation & Logistics 交通工具&物流



# ASTM 技術標準委員會



# 標準介紹



# 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、方法或者服務符合其預期目標的宗旨並一貫的執行。
- 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，確定和建立質量安全標準。如果程序標準化，成本將降低。



# ASTM 六大標準類型

標準試驗方法(Test Method)	用於測定材料、產品、系統或服務的特性和性能的規定程序，內容通常包括試驗設備、試樣、操作步驟和計算方法等詳細的描述，來確保測試結果的準確性和可靠性。
標準規範(Standard Specification)	針對材料、產品、系統或專案提出技術要求並給出具體說明的標準通常包括材料的成分、性能、尺寸、檢測方法、標記、包裝等規定以確保產品的品質、安全和一致性
標準規程(Practice)	在執行一種或多種特定的操作或功能上給予說明，但不會產生測試結果的標準。它們通常包括了操作的目的、範圍、原則、程序、注意事項等方面的內容，以幫助執行相關的工作
標準術語(Terminology)	對一個或多個特定的領域或主題的術語、定義、縮寫、符號等給予統一的規範的標準，內容通常包括術語的解釋、來源、用法、範例等方面的內容，幫助使用者理解及使用的概念。
標準指南(Guidance)	主要提供指導或方向的標準，但不會強制要求執行的方法過程，通常包括了操作的目的、範圍、原則、程序、注意事項等方面的內容幫助使用者執行相關的工作。
標準分類(Standard Classification)	對一個或多個特定主題的材料、產品、系統或服務進行分類、分級分組的規範的標準。同時說明分類的目的、範圍、原則、方法、標準、符號等內容。



# 標準編號

■ 標準代號 + **字母分類代碼** + 標準序號 + 制定年份(修訂年份) + 修訂版次

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

a.b.c.....表示修訂版次

制定年限後面括弧內的年代為標準重新審定的年代

字母分類代碼見「標準分類」

■ 示例：ASTM A34-2001

ASTM C685/C685M-2001

ASTM D4595-86 ( 2001 )

ASTM F2090-01a



# 標準編號分類代碼

- 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



## 標準在學術領域之應用

- ASTM 標準是由來自全球專家和相關開發及學者共同制定的，反映了各領域的最新進展和動態，具有非常高的學術價值及實用性。
- 對於石油、材料科學、能源、環境、土木建築、金屬、油漆、塑膠等領域的研究者，ASTM標準是必備的參考資料。



# ASTM 標準新訊

## Standardization News



### How Commercial Spaceflight is Propelled by Safety Standards

As the world enters a new era, commercial spaceflight companies are turning to standardization as they evaluate next steps.

BY: JP ERVIN

#### Industry Sectors

-  Aerospace
-  Cannabis
-  Chemicals
-  Construction
-  Consumer Products
-  Energy
-  Environment
-  Manufacturing
-  Medical
-  Metals & Materials
-  Quality
-  Safety
-  Transportation

#### Columns

President's Column  
Interviews

- 進入 ASTM 網站  
<https://www.astm.org/standardization-news/>
- 了解最新各產業的標準資訊



# ASTM 標準新訊

更新

## 高性能熱塑性樹脂

ASTM 國際塑膠委員會 (D20) 制定了第一個材料標準 (D8501)...[更多](#)



產業領域：  
金屬與材料  
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特徵

## 標準如何為機器人技術的未來做出貢獻

人類長期以來一直對我們今天所說的機器人著迷。故事遍布...[更多](#)



產業領域：  
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## 修訂主要玩具安全標準

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消費性產品



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## 土壤和生物固體分析

ASTM 國際廢棄物管理委員會 (D34) 批准了一項分析土壤的新標準...[更多](#)

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# ASTM COMPASS收錄內容



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# ASTM COMPASS 收錄內容介紹

## ASTM標準 STANDARDS

83,084篇

- ASTM現行標準(Active):  
13,000+ 篇
- ASTM歷史標準(Historical)  
65,000+ 篇
- ASTM廢止標準(Withdrawn)  
4,800+ 篇
- 標準測試影片
- 支援多語言翻譯

## 數位圖書館 DIGITAL LIBRARY

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- 手冊及專題著作 Manual/Monographs 1,600+ 本
- 數據套書 Data Series 200+ 本



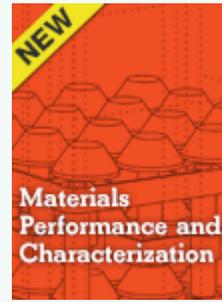
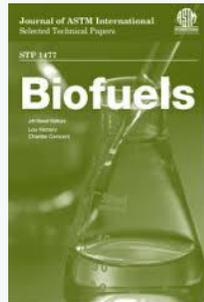
# ASTM COMPASS標準資料庫-提供全球即時的標準內容

- 超過13,000份現行(Active)的技術標準。
- 65,000份歷史(Historical)標準, 4,800份廢止(Withdrawn)標準。
- Work Item (WK)正在進行還未正式發表的標準
- Redline 標準:用色塊標示出前後修訂版本標準差異
- 約有35%的標準文件每年會進行修改。
- 強大的關鍵字或編號搜索。
- PDF或HTML格式的全文標準格式。



# ASTM DIGITAL LIBRARY 數位圖書館

- ASTM 數位圖書館 ( Digital Library ) 收錄ASTM 國際標準組織所出版的刊物，包含專業技術報告、期刊、手冊與專書，內容均可進行電子版本下載。
- 所有文章都經過嚴格的同行評議流程，確保良好學術性內容及技術準確度



# 專業技術報告 SYMPOSIA PAPERS & STPS

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。

- 收錄年份: 1931 年迄今
- 累積29,000+文獻
- 以書本格式出版1,598冊

## 涵蓋範圍

- Iron and Steel Products
- Nonferrous Metals Products
- Metals Test Methods and Analytical Procedures
- Construction Materials and Engineering
- Petroleum Products, Lubricants and Fossil Fuels
- Paint, Related Coatings and Aromatics
- Medical Devices and Services
- General Products, Chemical Specialties and End Use Products
- Textiles
- Plastics
- Rubber
- Electric Insulation and Electronics
- Water and Environmental Technology
- Nuclear, Solar, and Geothermal Energy
- General Methods and Instrumentation



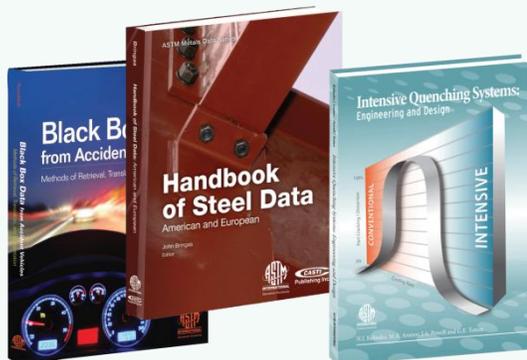
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書籍彙整備受推崇的專家，在各自領域的實踐技術與先進資訊。

- 收錄年份: 1965 年迄今
- 由備受推崇的專家撰寫實用、方便的應用程式資訊 (Manuals) 或先進技術性資訊 (Monographs):共82冊
- ASTM 數據套書Data Series提供了特定的應用說明，包含已編譯的資料。:共48冊

## 涵蓋範圍

- Iron and Steel Products
- Nonferrous Metals Products
- Metals Test Methods and Analytical Procedures
- Construction Materials and Engineering
- Petroleum Products, Lubricants and Fossil Fuels
- Paint, Related Coatings and Aromatics
- Medical Devices and Services
- General Products, Chemical Specialties and End Use Products
- Textiles
- Plastics
- Rubber
- Electric Insulation and Electronics
- Water and Environmental Technology
- Nuclear, Solar, and Geothermal Energy
- General Methods and Instrumentation



# 期刊 JOURNALS-9本期刊

收錄ASTM世界著名的9本現行及歷史期刊文獻，共16,800篇經同儕審核的文章內容

## 現行期刊

- 測試與評估雜誌(JOTE) 1973~至今
- 岩土技術測試雜誌(GTJ) 1978~至今
- 土木工程材料發展(ACEM) 2012~至今
- 材料的性能及特徵(MPC) 2012~至今
- 智能與可持續製造系統(SSMS) 2017~至今

## 回溯期刊

- ASTM國際期刊(JAI)2004~2012
- 複合材料技術與研究雜誌(JCTR) 1978~2003
- 水泥、混凝土與混合物(CCA) 1979~2004
- 法醫學雜誌(JOFS) 1972-2005



# 資料庫特色

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- 強大的搜尋引擎。
- 簡易的瀏覽結構。
- 現行的技術標準提供PDF及HTML格式。



## 檢索技巧 & 個人化功能設定

- 連線網址 [Http://compass.astm.org](http://compass.astm.org)
- 或經由圖書館電子資源，登入後連線。



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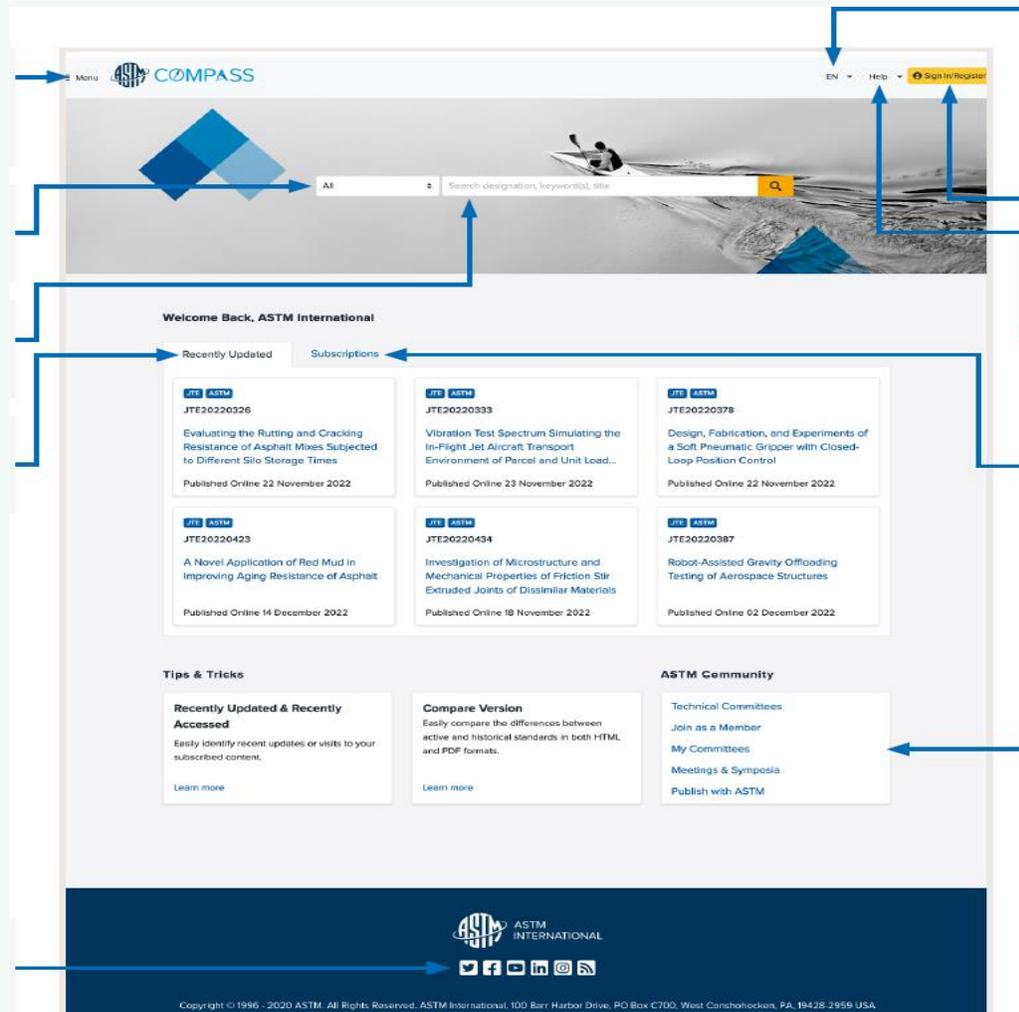
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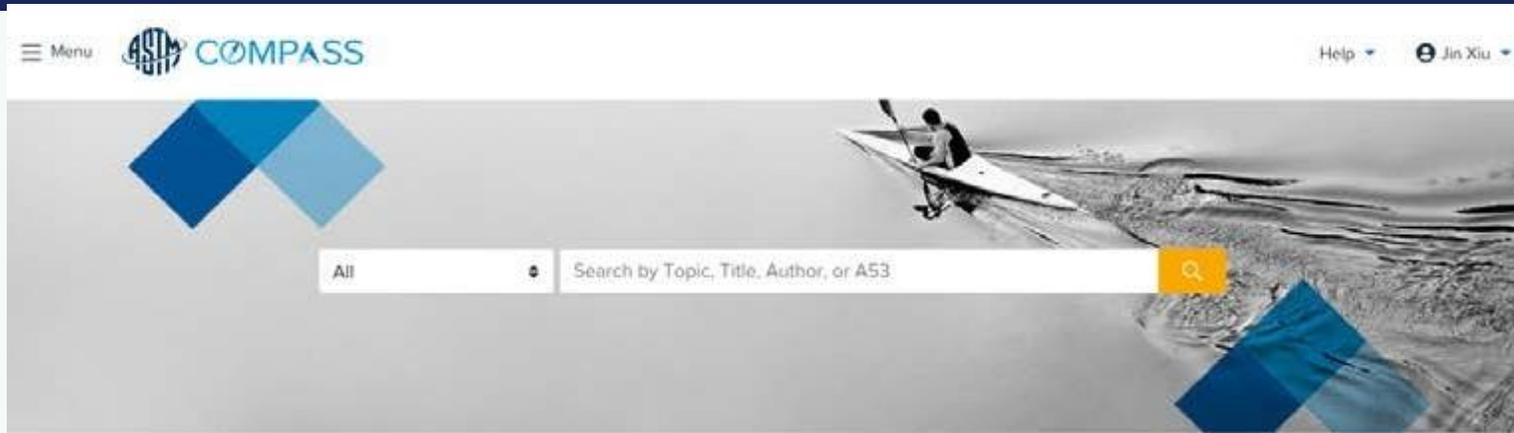
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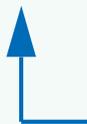
<p><b>Standard</b> <b>Active</b></p> <p><b>ASTM A1023/A1023M-19865945</b></p> <p>Standard Specification for Low-Carbon Nickel-Chromium-Molybdenum, Low-Carbon Nickel...</p> <p>Last Updated April 2, 2019</p>	<p><b>Adjunct</b></p> <p><b>ADJD4255-E-PDF</b></p> <p>Standard Specification for Low-Carbon Nickel-Chromium-Molybdenum, Low-Carbon Nickel...</p>	<p><b>Journal</b></p> <p><b>ACEM</b></p> <p>Reducing Production Temperature of Asphalt Rubber Mixtures Using Recycled Polyethylene Wax and...</p> <p>Published September 2020, Volume 9, Issu...</p>
<p><b>Standard</b> <b>Active</b></p> <p><b>ASTM A1023/A1023M-19865945</b></p> <p>Standard Specification for Low-Carbon Nickel-Chromium-Molybdenum, Low-Carbon Nickel...</p>	<p><b>STP</b></p> <p><b>STP12-EB</b></p> <p>Effect of Elevated Temperatures on Certain Mechanical Properties of Gray Cast Iron and Malleable Iron</p>	<p><b>Standard</b> <b>Active</b></p> <p><b>ASTM A1023/A1023M-19865945</b></p> <p>Standard Specification for Low-Carbon Nickel-Chromium-Molybdenum, Low-Carbon Nickel...</p>

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標準各版本

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Document type

Publisher

- ASTM 134415
- AASHTO 337

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Category

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- Materials 130688
- Process 35825
- Properties and Measurements 48447
- Testing Methods 28256

Technical Committee

Topic

Industry Sector

ICS Code

---

**Standard** **ASTM** **Active** | Last Updated: Feb 12, 2020 | English | Other Versions

### C125-20

#### Standard Terminology Relating to Concrete and Concrete Aggregates

1.1 This standard is a compilation of definitions of terms as they are used in standards under the jurisdiction of Committee C09.

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---

**Standard** **ASTM** **Active** | Last Updated: Dec 22, 2020 | English | Other Versions

### C1634-20

#### Standard Specification for Concrete Facing Brick and Other Concrete Masonry Facing Units

1.1 This specification covers solid, dry-cast, concrete facing brick and other solid concrete masonry facing units intended for interior and exterior use in constructing structural and facing masonry components and

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---

**Standard** **ASTM** **Active** | Last Updated: Jul 06, 2017 | English | Other Versions

### C174/C174M-17

#### Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores

1.1 This test method covers the determination of the thickness of a concrete pavement, slab, or structural element using drilling cores.

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# 標準瀏覽

標準狀態 Active /  
Historical 或  
Withdrawn

PDF 模式瀏覽或線  
上模式瀏覽

The screenshot shows the ASTM website interface for standard C125-20. At the top, there is a search bar with a dropdown menu set to 'All' and a search input field containing 'Search keyword(s), designation, author'. To the right of the search bar is a 'PDF 下載' (PDF Download) button. Below the search bar are navigation options: 'Track Document', 'Add to Favorites', 'Download', and 'Compare Versions'. The main content area displays the standard's status as 'Standard Active' with a last update date of 'Feb 12, 2020'. It also shows 'Translation: English' and 'Other Versions' options. The title of the standard is 'ASTM C125-20 Standard Terminology Relating to Concrete and Concrete Aggregates'. Below the title are tabs for 'PDF', 'HTML', 'Work Items', and 'Related Content'. A callout box points to the 'Work Items' tab with the text '全新修正版搶先看' (Preview the brand new revised edition). The main title 'Standard Terminology Relating to Concrete and Concrete Aggregates <sup>1</sup>' is prominently displayed. Below the title is a paragraph explaining the standard's designation and revision history. At the bottom, there is a section titled 'IN THIS STANDARD:' with links to 'Section 1 Scope', 'Section 2 Referenced Documents', 'Section 3 Terms and Their Definitions', and 'Section 4 Keywords'. A 'SUMMARY OF CHANGES' section is also visible.

PDF 下載

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Standard Active | Last Updated: Feb 12, 2020

Translation: English | Other Versions | Document Details

This International standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations Issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

ASTM C125-20

## Standard Terminology Relating to Concrete and Concrete Aggregates

PDF HTML Work Items Related Content

全新修正版搶先看

Designation: C125-20

## Standard Terminology Relating to Concrete and Concrete Aggregates <sup>1</sup>

This standard is issued under the fixed designation C125; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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

### IN THIS STANDARD:

- Section 1 Scope
- Section 2 Referenced Documents
- Section 3 Terms and Their Definitions
- Section 4 Keywords

### SUMMARY OF CHANGES

Footnotes

紅線標準，快速比較新舊差異

標準各版本

相關文獻推薦



# 標準範例

This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.



Designation: C125 – 16

## Standard Terminology Relating to Concrete and Concrete Aggregates<sup>1</sup>

This standard is issued under the fixed designation C125; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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

### 1. Scope\*

1.1 This standard is a compilation of definitions of terms as they are used in standards under the jurisdiction of Committee C09.

1.2 Other terminology under the jurisdiction of Committee C09 is included in two specialized standards. Terms relating to constituents of concrete aggregates are defined in Descriptive Nomenclature C294. Terms relating to constituents of aggregates for radiation-shielding concrete are defined in Descriptive Nomenclature C638.

1.3 Related terminology for hydraulic cement is included in

C143/C143M Test Method for Slump of Hydraulic-Cement Concrete  
C219 Terminology Relating to Hydraulic Cement  
C294 Descriptive Nomenclature for Constituents of Concrete Aggregates  
C403/C403M Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance  
C494/C494M Specification for Chemical Admixtures for Concrete  
C511 Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes

ASTM C125 – 16

**accreditation**, *n*—of testing agency, a process by which an evaluation authority attests that a testing agency has demonstrated the competency to perform specific tasks in accordance with a standard. (2011)

**admixture**, *n*—a material other than water, aggregates, cementitious material, and fiber reinforcement that is used as an ingredient of a cementitious mixture to modify its freshly mixed, setting, or hardened properties and that is added to the batch before or during its mixing. (R2015)

**accelerating admixture**, *n*—an admixture that increases the rate of reaction of cementitious materials thus reducing time of setting and increasing early strength development of a cementitious mixture. (2015)

**air-entraining admixture**, *n*—admixture that causes the development of a system of microscopic air bubbles in concrete or mortar during mixing. (R2008)

**chemical admixture**, *n*—an admixture in the form of a liquid, suspension, or water-soluble solid. (2014)

**mineral admixture**, *n*—deprecated term. (R2008)

**DISCUSSION**—This term has been used to refer to different types of water insoluble, finely divided materials such as pozzolanic materials, cementitious materials, and aggregate. These materials are not similar, and it is not useful to group them under a single term. The name of the specific material should be used, for example, use “pozzolan,” “slag cement,” or “finely divided aggregate,” as is appropriate.

**retarding admixture**, *n*—an admixture that decreases the rate

**DISCUSSION**—The definitions are alternatives to be applied under differing circumstances. Definition (1) is applied to an entire aggregate either in a natural condition or after processing. Definition (2) is applied to a portion of an aggregate. Requirements for properties and grading should be stated in the specification.

**fine aggregate**, *n*—(1) aggregate passing the 9.5-mm ( $\frac{3}{8}$ -in.) sieve and almost entirely passing the 4.75-mm (No. 4) sieve and predominantly retained on the 75- $\mu$ m (No. 200) sieve; or (2) that portion of an aggregate passing the 4.75-mm (No. 4) sieve and retained on the 75- $\mu$ m (No. 200) sieve. (R2008)

**DISCUSSION**—The definitions are alternatives to be applied under differing circumstances. Definition (1) is applied to an entire aggregate either in a natural condition or after processing. Definition (2) is applied to a portion of an aggregate. Requirements for properties and grading should be stated in the specifications.

**heavyweight aggregate**, *n*—see *high-density aggregate*.

**high-density aggregate**, *n*—aggregate with relative density greater than 3.3, such as: barite, magnetite, limonite, ilmenite, iron, or steel. (R2008)

**lightweight aggregate**, *n*—see *low-density aggregate*.

**low-density aggregate**, *n*—aggregate with bulk density less than 1120 kg/m<sup>3</sup> [70 lb/ft<sup>3</sup>], such as: pumice, scoria, volcanic cinders, tuff, and diatomite; expanded or sintered clay, shale, slate, diatomaceous shale, perlite, vermiculite, or slag; and end products of coal or coke combustion. (R2008)

**normal-density aggregate**, *n*—aggregate that is neither high nor low density. (R2008)



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**\*A Summary of Changes section appears at the end of this standard**

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# 實際操作

## 1. 請試著檢索標準編號並下載 ASTM D1143 橋梁負重測試最新標準” D1143/D1143M-20 Standard Test Methods for Deep Foundations Under Static Axial Compressive Load” 之PDF 檔案

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**Left Document (2013 Version):**  
Designation: D1143/D1143M - 07 (Reapproved 2013)<sup>1</sup>  
Standard Test Methods for Deep Foundations Under Static Axial Compressive Load<sup>1</sup>  
1.1 The test methods described in this standard measure the axial deflection of a vertical or inclined deep foundation when loaded in static axial compression. These methods apply to all deep foundations, referred to herein as piles, that function in a manner similar to driven piles or cast-in-place piles, regardless of their method of installation, and may be used for testing single piles or pile groups. The test results may not represent the long-term performance of a deep foundation.

**Right Document (2020 Version):**  
Designation: D1143/D1143M - 20  
Standard Test Methods for Deep Foundation Elements Under Static Axial Compressive Load<sup>1</sup>  
1.1 The test methods described in this standard measure the axial deflection of an individual vertical or inclined deep foundation element or group of elements when loaded in static axial compression. These methods apply to all types of deep foundations, or deep foundation systems as they are practical to test. The individual components of which are referred to herein as elements that function as, or in a manner similar to, drilled shafts, cast-in-place piles (augered cast-in-place piles, barrettes, and slurry walls), driven piles, such as pre-cast concrete piles, timber piles or steel sections (steel pipes or wide flange beams) or any number of other element types, regardless of their method of installation. Although the test methods may be used for testing single elements or element groups, the test results may not represent the long-term performance of the entire deep foundation system.

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ASTM C512/C512M-15

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 Designation: C512/C512M - 15

**Standard Test Method for Creep of Concrete in Compression<sup>1</sup>**

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Standard Test Method for Measuring Thickness of Concrete Cores<sup>1</sup>

This standard is issued under the fixed designation C125; the number immediately following the designation indicates the year of original adoption or, in the case of standards that have been amended by technical corrections, the year of original adoption and the year of last revision. A superscript epsilon ( $\epsilon$ ) indicates an authorized technical correction to the standard. This standard has been approved for use by ASTM International as a standard test method for standard test methods for concrete construction.

**1. Scope\***

1.1 This test method covers the determination of the thickness of a concrete pavement, slab, or structural element using drilling cores.

1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. Within the text, the inch-pound units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other.

1.3 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.

**2. Referenced Documents**

2.1 ASTM Standards:<sup>2</sup>

- C42/C42M Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
- C125 Terminology Relating to Concrete and Concrete Aggregates
- C670 Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials

2.2 AASHTO Standards:<sup>3</sup>

- AASHTO T148 Method of Test for Measuring Length of Drilled Concrete Cores

**3.1 Definitions:**

3.1.1 For definitions of terms used in this test method, refer to Terminology C125.

**4. Significance and Use**

4.1 This test method is used to determine the compliance of concrete construction with design specifications and is commonly used in determining the thickness of pavements and other slab construction. This test method requires that at least one end of the core be a finished or formed surface.

**5. Apparatus**

5.1 The apparatus shall consist of a base plate with three posts to support the core in a vertical direction, and top plate or other means of establishing a plane that is parallel to and a measured distance from the plane defined by the supporting posts. The apparatus includes a measuring rod as described in 5.5 or other means to determine the length of axial elements of the core. While the details of the mechanical design are not prescribed, the apparatus shall conform to the requirements of 5.2 – 5.6. An example of an apparatus is illustrated in Fig. 1.

5.2 The base of the apparatus shall be so designed that the core will be held with its axis in a vertical position by three symmetrically placed supports bearing against the lower end of the core. These supports shall be short posts or studs of hardened steel, and the ends that bear against the surface of the core shall be rounded to a radius of not less than 6 mm [ $\frac{1}{4}$  in.]

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