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ASTM international 國際標準組織



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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。



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- 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
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- 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
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- 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。



標準型式

試驗方法(Test Method)	對產生試驗結果的材料、產品、系統或服務的一個或多個性質、特徵或性能進行辨別、測量和評估的過程
標準規範(Standard Specification)	材料、產品、系統或服務滿足一套要求的精確說明，也包括如何滿足每項要求的程序。
標準規程(Practice)	執行一個或多個不產生試驗結果的特定操作或功能的確定的過程。
標準術語(Terminology)	由術語、術語定義、術語描述、符號說明、縮寫等組成的一個檔。
標準指南(Guidance)	例如: F2974 - 17a 審核遊樂設施和設備的標準指南
標準分類(Standard Classification)	基於類似的特徵，例如:成分、原產地、性質或用途進行有系統的分組及劃分。範例: D 2000-05汽車應用的橡膠製品的標準分類系統



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
- 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



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

- 在全球關鍵科技領域中，獲取最新的研究發現。
- 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



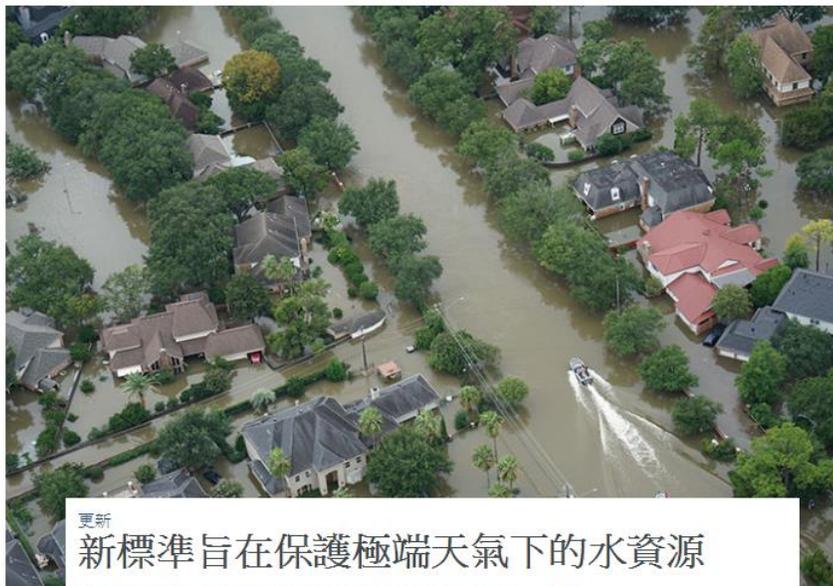
- 進入 ASTM 網站
<https://www.astm.org/standardization-news/>
- 了解最新各產業的標準資訊



ASTM 標準新訊

ASTM標準化新聞

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環境



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- ⚠️ 安全
- 🌿 環境
- 🚚 運輸
- 🧪 化學製品
- ⚡ 能源
- ⊕ 醫
- ⚖️ 質量

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外展

ASTM推出增材製造中心，以及更多.....

卓越添加劑製造中心發布7月23日，在奧本大學，ASTM國際組織正式推出其添加劑... [更多](#)



特徵

標準促進可持續發展

聯合國可持續發展目標於2016年正式成立，旨在消除貧困，保護地球，確保所有人的繁榮。.....

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建設 | 安全 | 環境 | 能源



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75,473篇

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13,355+ 篇
- ASTM歷史標準(Historical)
52,272+ 篇
- ASTM廢止標準(Withdrawn)
2351+ 篇
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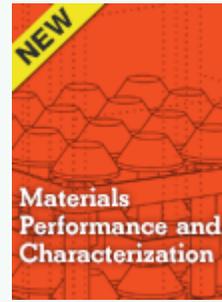
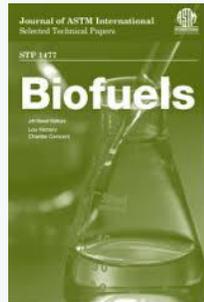
ASTM COMPASS標準資料庫-提供全球即時的標準內容

- 超過13,500份現行(Active)的技術標準。
- 52,000份歷史(Historical)標準, 2,300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。

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- Textiles
- Plastics
- Rubber
- Electric Insulation and Electronics
- Water and Environmental Technology
- Nuclear, Solar, and Geothermal Energy
- General Methods and Instrumentation



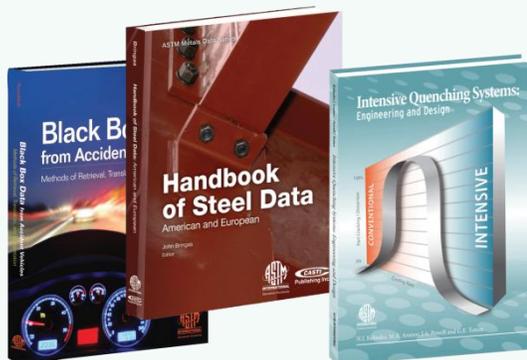
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- ASTM 數據套書Data Series提供了特定的應用說明，包含已編譯的資料。:共48冊

涵蓋範圍

- Iron and Steel Products
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- General Products, Chemical Specialties and End Use Products
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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

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- 測試與評估雜誌(JOTE) 1973~至今
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- 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 **NEW!**

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



其他歷史文獻收錄

■ Proceedings 會議論文

追溯1909 - 1965年 ASTM年度國際研討會所產出的會議論文

■ ASTM Bulletin 布告欄

追溯於1921 - 1960年 ASTM member magazine季刊雜誌，內容包含技術委員會的活動、發表刊物及技術論文

■ Materials Research & Standards材料搜尋和標準文件

追溯於1961 -1972年 ASTM member magazine月刊雜誌.內容包含技術委員會的活動、發表刊物及技術論文



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- 或經由圖書館電子資源，登入後連線。



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 - PDF Version (5,511)
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 - Materials (3,847)
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 - Properties and Measurements (2,362)
 - Test Methods (1,113)
- Technical Committees
- Topic
- Industry Sectors

ASTM F2678-16 Standard Practice for Preparing Panel Underlayments, Thick Poured Gypsum **Concrete** Underlayments, Thick Poured Lightweight Cellular **Concrete** Underlayments, and **Concrete** Subfloors with Underlayment Patching Compounds to Receive Resilient Flooring

Active Standard (Latest Version) Last Updated February 15, 2016

各種版本

This standard provides recommendations for preparing and smoothing panel underlayments, gypsum **concrete** subfloors, and lightweight cellular **concrete** subfloors. A resilient flooring may be installed.

Versions ▾

Translations ▾

PDF 

下載檔案

ASTM D5078/D5078M-11(2016) Standard Specification for Crack Filler, Hot-Applied, for Asphalt **Concrete** and Portland Cement **Concrete** Pavements

Active Standard (Latest Version)

This specification covers hot-applied crack filler for use in filling cracks in asphalt **concrete** and portland cement **concrete** pavements.

Versions ▾

Translations ▾

PDF 

D5078/D5078M - 11 English

D5078 - 95(2006) English

D5078 - 95(2000) English



標準瀏覽



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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 Aggregates¹

Active Standard ASTM C125

ADD/EDIT ANNOTATION



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 (ϵ) 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](#)

ADD/EDIT ANNOTATION



PRINT SECTION

1 | Scope *A Summary of Changes section appears at the end of this standard.

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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Details

Developed by Subcommittee: [C09.91](#)

標準標題

標準介紹

標準文檔下載

相關連結



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 Aggregates¹

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 (ϵ) 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

 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- μ m (No. 200) sieve; or (2) that portion of an aggregate passing the 4.75-mm (No. 4) sieve and retained on the 75- μ 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/m³ [70 lb/ft³], 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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Standard Test Methods for Deep Foundations Under Static Axial Compressive Load¹

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NOTE—Editorially corrected the title of Figure 2 in June 2018.

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Standard Test Methods for Tension Testing of Metallic Materials¹

此標準文件為基本拉伸試驗之標準，在實驗前須熟知步驟與過程。 - Annotation Made By: Andrew
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Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores¹

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Standard Practice for Preparing Panel Underlayments, Thick Poured Gypsum Concrete Underlayments, Thick Poured Lightweight Cellular Concrete Underlayments, and Concrete Subfloors with Underlayment Patching Compounds to Receive Resilient Flooring¹

Active Standard ASTM F2678

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