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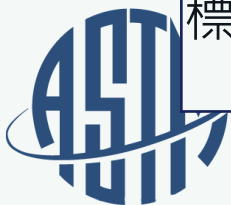
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字母分類代碼見「標準分類」

■ 示例：ASTM A34-2001

ASTM C685/C685M-2001

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



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- 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)
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- 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)
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5 Standards that Support Resilience

BY NICELY ENRIGHT

As we see increasingly severe storms and natural disasters take their toll worldwide, it is clear that better planning for infrastructure is required. And resilience — the ability of an object or material to withstand events over time — has taken on greater significance in the built environment in recent years. Numerous ASTM International standards address resilience or aspects of it. Here is a



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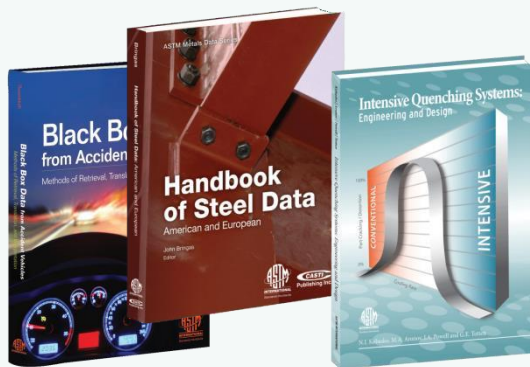
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DESIGNATION: C125 - 16

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](#)

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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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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



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

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HISTORICAL VERSION(S):

C1492 - 03(2009) Standard Specification for Concrete Roof Tile

C1492 - 03 Standard Specification for Concrete Roof Tile

C1492 - 01 Standard Specification for Concrete Roof Tile

Designation: C1492-03 (Reapproved 2016 ~~2009~~)

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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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Designation: 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 Flooring¹

Active Standard ASTM F2678

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Published Online: Aug 2018

Author(s):
Takeshi Ihara
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A technique widely used to mitigate climate change is the minimization of energy consumption in buildings by enhancing the thermal performance of glazing systems. Rim seals, consisting of a primary seal, secondary seal, and spacer, are the key to securing a good thermal performance because they protect the gaseous cavities of the multi-

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