

EXHIBIT 1

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**1967 BOOK OF
ASTM STANDARDS**

With Related Material



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PART 24

**Textile Materials—Yarns, Fabrics,
and General Methods**

Includes standards of:

Committee D-13 on Textile Materials

A list of committee members may be found in the ASTM Year Book.

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ASTM

THE American Society for Testing and Materials is an international, nonprofit, technical, scientific, and educational society devoted to "... the promotion of knowledge of the materials of engineering, and the standardization of specifications and methods of testing."

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A cordial invitation to become affiliated as members in the Society is extended to individuals and organizations who are concerned with the fields of work in which ASTM is active or who would find it of interest and benefit to keep in close touch with the work of the Society. Information on membership is given on the application forms bound in the back of this book. For further information, contact ASTM Headquarters, 1916 Race St., Philadelphia, Pa. 19103.

The appearance of the Book of ASTM Standards is a tribute to the sincere efforts of the technical committees responsible for the development and review of the standards, and of the many individuals serving on the committees. The committees responsible for developing the standards appearing in this part are listed on the title page. The names of persons serving on these committees and the organizations they represent are listed in the ASTM Year Book which is published annually. Because of their contribution, personal recognition would be justified. However, this list is too extensive and covers too many fields of interest to include as part of this volume.

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Report

1.1 State that the tests were made as directed in ASTM Method D 1295 and report the average warp and filling (or, when necessary, warp-face, warp-back, filling-face and filling-back) recovery percentages. If both normal and high-humidity atmospheres have been used, report the average sets of average values.

Precision

1.1 Results of interlaboratory tests have shown significant differences in between-laboratory precision.

1.2 Using three specimens for each sample, as prescribed in the method, the between-laboratory precision of the average for warp or filling, as measured by variance, has ranged from a low of 10 to a high of 140 deg squared. A variance of under 40 deg squared is considered satisfactory.

1.3 When the within-laboratory precision is satisfactory, different laboratories will rank a group of fabrics in the same order, even though they differ in absolute values obtained. Results, therefore, can be used to make decisions with confidence about the relative quality of several fabrics. The method, however, should not be recommended for acceptance testing.

Standard Method of Test for

TUFT BIND OF PILE FLOOR COVERINGS¹



ASTM Designation: D 1335 - 67

This Standard of the American Society for Testing and Materials is issued under the fixed designation D 1335; 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 reappraisal.

1. Scope

1.1 This method covers the determination of the force required to pull a tuft completely out of a cut pile floor covering or to pull one or both legs of a loop free from the backing of looped pile floor covering.

NOTE 1—For the determination of other properties of pile floor coverings refer to ASTM Methods D 418, Testing Woven Pile Floor Coverings² and ASTM Methods D 1486, Testing Tufted Pile Floor Coverings.²

2. Definitions

2.1 *Tuft, n.*—The cut or uncut loops forming the face of a tufted or woven pile floor covering.

2.2 *Tuft Bind, n.*—The force required to pull a tuft from a cut pile floor covering or to pull free one leg of a loop from a looped pile floor covering.

NOTE 2—The force is generally expressed in pounds-force.

¹ Under the standardization procedure of the Society, this method is under the jurisdiction of the ASTM Committee D-13 on Textile Materials, and is the direct responsibility of Subcommittee A-11 on Pile Floor Coverings. A list of committee members may be found in the ASTM Year Book.

Current edition accepted Sept. 8, 1967. Originally issued 1954. Replaces D 1335 - 60 T.

² Appears in this publication.

2.3 *Pile Floor Covering, n.*—A pile fabric intended for use as a floor covering. The pile may be in the form of cut loops or loops, or both. Both the cut loops and the loops may vary in height.

2.4 *Looped Pile Floor Covering, n.*—A pile floor covering in which the pile is composed of loops.

2.5 *Cut Pile Floor Covering, n.*—A pile floor covering in which the pile is composed of tufts in the form of cut loops.

2.6 For definitions of other terms used in this method, refer to ASTM Definitions D 123, Terms Relating to Textile Materials.²

3. Summary of Method

3.1 The force required to pull a cut loop from a cut pile floor covering or to pull one or both legs of a loop from a looped pile floor covering is determined by a tensile testing machine. The required load or force is reported in pounds-force (lbf) or kilograms-force (kgf).

4. Uses and Significance

4.1 The satisfactory performance of a pile floor covering depends to a considerable extent on the maintenance of its original appearance. In a cut pile floor

covering an inadequate tuft bind may result in complete loss of pile in areas exposed to severe wear. In a looped pile floor covering with inadequate tuft bind the pile loops may be pulled out to form unsightly long tufts or occasionally hazardous loops.

4.2 The wide range of capacity of tensile testing machines is specified to cover the application of the method to intermediate products (without back coating) which might have a tuft bind of less than 1 lb and also to cover the use of the method when it is desired to determine

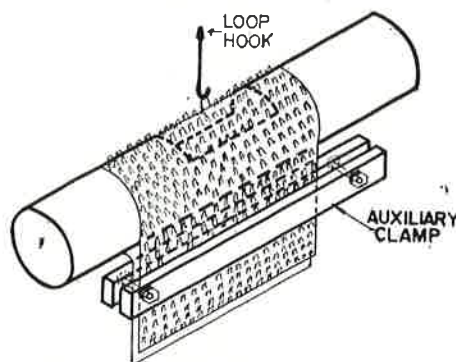


FIG. 1—Specimen Holder, Cut-Away Type.

that the tuft bind exceeds a specified value of 3 to 4 lb, for example, without taking the time to pull the tuft out completely.

4.3 In cases when a floor covering contains both cut and uncut pile, an equal number of each type of pile should be tested.

5. Apparatus

5.1 *Tensile Testing Machine*, conforming to ASTM Specifications D 76, for Tensile Testing Machines for Textile Materials,² with a capacity selected such that the force required to complete the test falls within 20 to 80 per cent of full scale. Full scale loads ranging from 1 to 25 lb (0.5 to 11 kg) are generally adequate. The testing machines must be operable at

the specified rates; for constant-rate-of-traverse (CRT) and constant-rate-of-extension (CRE) types— 12 ± 0.5 in. (305 ± 10 mm)/min. For constant-rate-of-load (CRL) type, the full load of the tester shall be applied in 20 sec.

NOTE 3—The level of test results obtained with different types of testing machines is not always the same.

5.2 *Cylindrical Specimen Holder, Cut-Away Type*, consisting of a 6-in. (152-mm) length of 1.5-in. (38-mm) outside diameter tubing with a section 2 in. (51 mm) long having half of the tubing cut away. See Fig. 1. This specimen holder should be constructed in a manner that will permit clamping the test specimen in the nonmeasuring, pulling clamp of the tensile testing machine or replacement of the nonmeasuring clamp by the specimen holder.

5.3 *Tuft Clamp*, for use only with cut pile floor coverings, consisting of a tweezer-like clamp that can be used to grip a single tuft tightly enough to assure removal of the whole tuft from the fabric without slippage of the tuft in the clamp. Alternatively, a hemostat³ can be used.

5.4 *Loop Hook*, for use only with looped pile floor coverings, consisting of a hook which can be readily passed through the loop and hooked under the top of the loop. The hook should be made of wire having a diameter of at least $\frac{1}{32}$ in. (0.8 mm) and should be so constructed that it will not cut the loop during the normal test procedure. The shank of the hook should be so constructed that it can be clamped in the measuring clamp or can replace the measuring clamp of the test machine.

NOTE 4—Because the tuft clamp or loop hook is attached to, or replaces, the usual measuring clamp of the test machine, it is necessary to

³ Hemostats suitable for this purpose can be obtained from the Fisher Scientific Co., Catalog 65, Catalog No. 8-907, Forceps, Kelly Hemostatic.

ified rates; for constant-rate-of- (CRT) and constant-rate-of-ex- (CRE) types— 12 ± 0.5 in. (10 mm)/min. For constant-rate- (CRL) type, the full load of the shall be applied in 20 sec.

3—The level of test results obtained by different types of testing machines is not the same.

Cylindrical Specimen Holder, Cut-Type, consisting of a 6-in. (152-mm) length of 1.5-in. (38-mm) outside diameter tubing with a section 2 in. (51 mm) long having half of the tubing cut away. See Fig. 1. This specimen holder shall be constructed in a manner that will permit clamping the test specimen in place. The measuring, pulling clamp of the testing machine or replacement of measuring clamp by the specimen

Tuft Clamp, for use only with cut-type pile floor coverings, consisting of a clamp-like clamp that can be used to hold a single tuft tightly enough to assure that there is no slippage of the tuft from the fabric. Alternatively, a hemostat³ can be used. **Loop Hook**, for use only with pile floor coverings, consisting of a hook which can be readily passed through the loop and hooked under the bottom of the loop. The hook should be made of wire having a diameter of at least 0.8 mm and should be so constructed that it will not cut the loop during the normal test procedure. The end of the hook should be so constructed that it can be clamped in the measuring clamp or can replace the measuring clamp of the test machine.

4—Because the tuft clamp or loop hook is used to, or replaces, the usual measuring clamp of the test machine, it is necessary to

use hemostats suitable for this purpose can be obtained from the Fisher Scientific Co., Catalog No. 8-907, Forceps, Kelly Hemo-

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compensate for the effect of the altered weight of the clamp to retain the previous calibration of the testing machine.

6. Sampling

6.1 Take a lot sample and a laboratory sample as directed in the applicable material specification. In the absence of such specification, select a sample representative of the roll or piece to be tested and of sufficient size so that five specimens each about 6 in. (150 mm) wide and about 8 in. (200 mm) long can be cut from it.

NOTE 5—If the pile floor covering is back coated, exercise care in handling the sample in order that the back coating is not broken or otherwise disturbed.

7. Conditioning

7.1 Bring the specimens to moisture equilibrium for testing in the standard atmosphere for testing textiles approaching equilibrium from the dry side. Determine that moisture equilibrium for testing has been attained as directed in ASTM Method D 1776, Conditioning Textiles and Textile Products for Testing.²

8. Preparation of Apparatus

8.1 If required, replace the nonmeasuring clamp of the test machine with the specimen holder described in 5.2.

8.2 Replace the measuring clamp of the test machine with, or attach to the measuring clamp of the test machine, the tuft clamp described in 5.3 or the loop-hook described in 5.4, depending upon which is required for the type of pile floor covering under test (Note 4).

9. Procedure

9.1 Test the conditioned specimens in the standard atmosphere for testing textiles.

9.2 Adjust the constant-rate-of-traverse (CRT) or the constant-rate-of-extension (CRE) type testing machine to

operate at a rate of 12 ± 0.5 in. (305 ± 10 mm)/min. Adjust the constant-rate-of-load (CRL) type tester so that the full load is applied in 20 sec.

9.3 Cut Pile Floor Coverings:

9.3.1 Mount the test specimen on the specimen holder with the rows of tufts at a right angle to the long axis of the holder in such a position that the tuft to be tested is approximately centered over the cut-away portion of the specimen holder. Adjust the tension so that the specimen presents an undistorted cylindrical surface over the cut-away sec-

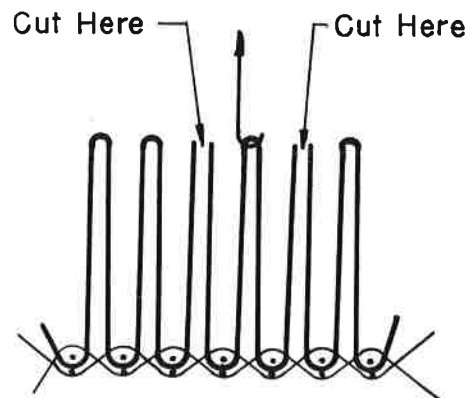


FIG. 2—Arrangement of Hook and Loops for Testing.

tion of the specimen holder. Locate the tuft to be pulled directly below the center of the pulling clamp or hook.

9.3.2 Select only one tuft for testing from any one row of tufts and allow at least 1 in. (26 mm) between any tuft tested and the edge of the specimen.

9.3.3 Using the tuft clamp grip one leg (side) of the original loop. Make certain that all fibers forming the tuft are securely gripped by the tuft clamp. Take care not to pinch, "break the back," or otherwise deform the carpet in the selection of, and attachment of the clamp to, the tuft under test.

9.3.4 Determine tuft bind in pounds-force or kilograms-force to the nearest

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0.1 lbf or 50 gf required to pull out the tuft from the pile floor covering.

9.3.5 Repeat this procedure on two additional tufts from different rows of tufts.

9.4 *Looped Pile Floor Covering:*

9.4.1 Mount the test specimen on the specimen holder as described in 9.3.1.

9.4.2 Select a location where three adjacent loops are formed by the same end. Cut completely through the first and third loops and test the center loop (Note 6). See Fig. 2.

NOTE 6—If this procedure is not followed, a spurious value may be obtained if one or both ends of the loop under test is buried in the back construction for a number of construction unit repeats.

9.4.3 Insert the loop hook in the loop to be tested. Determine the pounds-force or kilograms-force to the nearest 0.1 lbf or 50 gf required to pull at least one leg of the loop from the pile floor covering.

9.4.4 Repeat this procedure on two additional loops from other rows of loops.

10. Calculations

10.1 Calculate the average force required for all specimens tested for a sample to the nearest 0.1 lbf (50 gf).

11. Report

11.1 State that the tests were performed as directed in ASTM Method D 1335 and give the following information:

11.1.1 Average tuft bind in pounds-force or kilograms-force to the nearest 0.1 lbf or 50 gf value of the test results,

11.1.2 Number of specimens tested,

11.1.3 Type of floor covering tested, and

11.1.4 Type of tensile testing machine on which the tests were performed.

12. Precision

12.1 *Repeatability*—The within-laboratory precision, at the 95 per cent probability level, of the average of three replicates is expected to be within ± 7 per cent of the average tuft bind.

12.2 *Reproducibility*—The precision, at the 95 per cent probability level, of the difference between two laboratories, each making three measurements, is expected to be within ± 15 per cent of the average tuft bind.

NOTE 7—These values of precision are based on interlaboratory testing by three laboratories on a series of samples that represent most styles of currently produced carpets.

EXHIBIT 2

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- B 13 Discontinued
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- B 17 Discontinued—Replaced by E 66, E 67
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- B 28 Discontinued—Replaced by E 54
- B 29-79 Pig Lead, Spec. for, 8
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- B 51 Discontinued
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- B 53 Discontinued—Replaced by B 644
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1988



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Foreword

ASTM

ASTM, founded in 1898, is a scientific and technical organization formed for "the development of standards on characteristics and performance of materials, products, systems, and services; and the promotion of related knowledge." It is the world's largest source of voluntary consensus standards.

The Society operates through 140 main technical committees with 2040 subcommittees. These committees function in prescribed fields under regulations that ensure balanced representation among producers, users, general interest, and consumer participants.

The Society currently has 30,000 active members, of whom approximately 19,150 serve as technical experts on committees, representing 91,390 units of participation.

Membership in the Society is open to all concerned with the fields in which ASTM is active. A membership application may be found at the back of this volume. Additional information may be obtained from Member, Committee, and Customer Services, ASTM, 1916 Race St., Philadelphia, PA 19103.

1988 Annual Book of ASTM Standards

The 1988 *Annual Book of ASTM Standards* consists of 67 volumes, divided among 16 sections, of which this volume is one. It contains formally approved ASTM standard classifications, guides, practices, specifications, test methods, and terminology and related material such as proposals. These terms are defined as follows in the Regulations Governing ASTM Technical Committees:

Categories:

standard—as used in ASTM, a document that has been developed and established within the consensus principles of the Society and that meets the approval requirements of ASTM procedures and regulations.

Discussion—The term "standard" serves in ASTM as an adjective in the title of documents, such as test methods or specifications, to connote specified consensus and approval. The various types of standard documents are based on the needs and usages as prescribed by the technical committees of the Society.

proposal—a document that has been approved by the sponsoring committee for publication for information and comment prior to its consideration for adoption as a standard.

Discussion—Complete balloting procedures are not required for proposals.

emergency standard—a document published by the Society to meet a demand for more rapid issuance of a specific standard document.

Discussion—The Executive Subcommittee of the sponsoring committee must recommend the publishing of an emergency standard and the Committee on Standards must concur in the recommendation. Emergency standards are not full consensus documents because they are not submitted to Society ballot.

Types:

The various types of ASTM documents are to provide a flexibility of form, communication, and usage for both the technical committees and the myriad users of ASTM documents. The type of ASTM document that is developed and titled is based on the technical content and intended use, not on the degree of consensus achieved. The three categories of ASTM documents (standard, emergency standard, and proposal) can be of the following forms and types:

classification—a systematic arrangement or division of materials, products, systems, or services into groups based on similar characteristics such as origin, composition, properties, or use.

guide—a series of options or instructions that do not recommend a specific course of action.

Discussion—Whereas a practice prescribes a general usage principle, a guide only suggests an approach. The purpose of a guide is to offer guidance, based on a consensus of viewpoints, but not to establish a fixed procedure. A guide is intended to increase the awareness of the user to available techniques in a given subject area and to provide information from which subsequent evaluation and standardization can be derived.

practice—a definitive procedure for performing one or more specific operations or functions that does not produce a test result. (Compare *test method*.)

Discussion—A practice is not a downgraded test method. Examples of practices include procedures for conducting interlaboratory testing programs or other statistical procedures; for writing statements on sampling or precision and accuracy; and for selection, preparation, application, inspection, necessary precautions for use or disposal, installation, maintenance, and operation of testing equipment.

specification—a precise statement of a set of requirements to be satisfied by a material, product, system, or service that indicates the procedures for determining whether each of the requirements is satisfied.

Discussion—It is desirable to express the requirements numerically in terms of appropriate units together with their limits.

terminology—a document comprising definitions of terms; descriptions of terms; explanations of symbols, abbreviations, or acronyms.

test method—a definitive procedure for the identification, measurement, and evaluation of one or more qualities, characteristics, or properties of a material, product, system, or service that produces a test result. (Compare *practice*.)

A new edition of the Book of Standards is issued annually. Each volume contains all actions approved by the Society at least six months before the issue date. New and revised standards approved by the Society between the annual appearances of any given volume are made available as separate copies. The 1988 edition of the Book of Standards comprises approximately 55,000 pages and includes over 8000 ASTM standards.

Purpose and Use of ASTM Standards

An ASTM standard represents a common viewpoint of those parties concerned with its provisions, namely, producers, users, consumers, and general interest groups. It is intended to aid industry, government agencies, and the general public. The use of an ASTM standard is purely voluntary. It is recognized that, for certain work or in certain regions, ASTM standard specifications may be either more or less restrictive than needed. The existence of an ASTM standard does not preclude anyone from manufacturing, marketing, or purchasing products, or using products, processes, or procedures not conforming to the standard. Because ASTM standards are subject to periodic review and revision, those who use them are cautioned to obtain the latest revision.

Consideration of Comments on ASTM Standards

An ASTM standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of any standard or for additional standards and should be addressed to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, 1916 Race St., Philadelphia, PA 19103.

Using the Annual Book of ASTM Standards

The standards are assembled in each volume in alphanumeric sequence of their ASTM designation numbers except for Volumes 11.01, 11.02, and 05.04, which are assembled by subject matter. Volume 06.03 is assembled first by committee, then in alphanumeric sequence. Each volume has a table of contents, listing the standards in alphanumeric sequence by ASTM designation; and a list by subjects, categorizing the standards according to subject. A subject index of the standards in each volume appears at the back of each volume.

Availability of Individual Standards

Each ASTM standard is available as a separate copy from ASTM. Special quantity prices and discounts for members can be obtained from Customer Services. When ordering, provide the ASTM standard designation and year of issue, title, quantity desired, and shipping instructions.

Obsolete Editions

This new edition of the *Annual Book of ASTM Standards* makes last year's edition obsolete. Each volume of the *Annual Book of ASTM Standards* is published annually because of additions of new standards and significant revisions in existing standards. On the average, about 30 % of each volume is new or revised. For practical purposes, therefore, it is not wise to use obsolete volumes. However, for teaching purposes, these outdated volumes might be useful.

Precautionary Caveat

In January 1983, the Board of Directors approved the inclusion of the following precautionary caveat:

This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety problems 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.



Alphanumeric List

ASTM Standards

Standards:

Specifications	2521
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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals), a serial number (one to four digits), a dash, and the year of issue. The number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1988 have as their final number, 88. A letter following this number indicates more than one revision during that year, that is 88a indicates the second revision in 1988, 88b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1988).

A letter M after the serial number designates a "metric standard," that is, a standard which contains "hard metric" units.

When reference is made to a standard, the *complete* designation should be given. Best practice is to state the *designation and title*.

The boldface number(s) following the title refer to the volume(s) of the *Annual Book of ASTM Standards* in which the standard appears.

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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals), a serial number (one to four digits), a dash, and the year of issue. The number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1989 have as their final number, 89. A letter following this number indicates more than one revision during that year, that is 89a indicates the second revision in 1989, 89b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1989).

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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1990 have as their final number, 90. A letter following this number indicates more than one revision during that year, that is 90a indicates the second revision in 1990, 90b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1990). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1991 have as their final number, 91. A letter following this number indicates more than one revision during that year, that is 91a indicates the second revision in 1991, 91b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1991). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

If a standard is written in inch-pound units (or other units) and acceptable metric units, the document is identified by a dual alphanumeric designation.

When reference is made to a standard, the *complete* designation should be given. Best practice is to state the *designation and title*.

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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1992 have as their final number, 92. A letter following the number indicates more than one revision during that year, that is 92a indicates the second revision in 1992, 92b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1992). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units) the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

If a standard is written in inch-pound units (or other units) and acceptable metric units, the document is identified by a dual alphanumeric designation.

When reference is made to a standard, the complete designation should be given. Best practice is to state the designation and title.

The boldface number(s) following the title refer to the volume(s) of the *Annual Book of ASTM Standards* in which the standard appears.

This list includes only those standards which appear in the 1992 edition of each volume of the *Annual Book of ASTM Standards*. New and revised standards that were approved after the closing date for the volume are available as separate reprints and will be listed in next year's edition.

Each ASTM standard is available as a separate reprint from ASTM. Price and order information are available from ASTM Customer Service, 1916 Race Street, Philadelphia, PA 19103, 215-209-6585.

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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1993 have as their final number, 93. A letter following this number indicates more than one revision during that year, that is 93a indicates the second revision in 1993, 93b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1993). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

If a standard is written in inch-pound units (or other units) and acceptable metric units, the document is identified by a dual alphanumeric designation.

When reference is made to a standard, the *complete* designation should be given. Best practice is to state the *designation and title*.

The boldface number(s) following the title refer to the volume(s) of the *Annual Book of ASTM Standards* in which the standard appears.

This list includes only those standards which appear in the 1993 edition of each volume of the *Annual Book of ASTM Standards*. New and revised standards that were approved after the closing date for the volume are available as separate reprints and will be listed in next year's edition.

Each ASTM standard is available as a separate reprint from ASTM. Price and order information are available from ASTM Customer Service, 1916 Race Street, Philadelphia, PA 19103, 215-299-5585.

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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1994 have as their final number, 94. A letter following this number indicates more than one revision during that year, that is 94a indicates the second revision in 1994, 94b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1994). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

If a standard is written in inch-pound units (or other units) and acceptable metric units, the document is identified by a dual alphanumeric designation.

When reference is made to a standard, the *complete* designation should be given. Best practice is to state the *designation and title*.

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In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1995 have as their final number, 95. A letter following this number indicates more than one revision during that year, that is 95a indicates the second revision in 1995, 95b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1995). A superscript epsilon indicates an editorial change since the last revision or reapproval; ϵ_1 for the first change, ϵ_2 for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

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- A 425** Discontinued 1970: Specification for Hot-Rolled Carbon Steel Strip, Commercial Quality; Replaced by A 569
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- A 427-74(1992)** Specification for Wrought Alloy Steel Rolls for Cold and Hot Reduction, **01.05**
- A 428-89^{e1}** Test Method for Weight of Coating on Aluminum-Coated Iron or Steel Articles, **01.06**
- A 429** Discontinued 1976: Specification for Hot- and Cold-Finished Bars of Stainless and Heat-Resisting Chromium-Nickel-Manganese Steel; Replaced by A 276
- A 430/A430M-91** Specification for Austenitic Steel Forged and Bored Pipe for High-Temperature Service, **01.01**
- A 431** Discontinued 1968: Specification for High-Strength Deformed Billet-Steel Bars for Concrete Reinforcement with 75,000 psi Minimum Yield Strength; Replaced by A 615
- A 432** Discontinued 1968: Specification for Deformed Billet Steel Bars for Concrete Reinforcement with 60,000 psi Minimum Yield Point; Replaced by A615]
- A 433** Discontinued 1972: Specification for Leaded, Carbon Steel Plates for Pressure Vessels
- A 434-90a** Specification for Steel Bars, Alloy, Hot-Wrought or Cold-Finished, Quenched and Tempered, **01.05**
- A 435/A435M-90** Specification for Straight-Beam Ultrasonic Examination of Steel Plates, **01.04**
- A 436-84(1992)** Specification for Austenitic Gray Iron Castings, **01.02**
- A 437/A437M-94** Specification for Alloy-Steel Turbine-Type Bolting Material Specially Heat Treated for High-Temperature Service; **01.01, 15.08**
- A 438-80(1991)^{e1}** Test Method for Transverse Testing of Gray Cast Iron, **01.02**
- A 439-83(1994)^{e1}** Specification for Austenitic Ductile Iron Castings, **01.02**
- A 440** Discontinued 1979: Specification for High-Strength Structural Steel
- A 441/A441M** Discontinued 1989: Specification for High-Strength Low-Alloy Structural Manganese Vanadium Steel; Replaced by A1572/A1572M
- A 442/A442M** Discontinued 1991: Specification for Pressure Vessel Plates, Carbon Steel, Improved Transition Properties
- A 443** Discontinued 1966: Method of Notch Toughness of Turbine and Generator Steel Forgings; Combined with A 370
- A 444/A444M-89^{e1}** Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process for Storm Sewer and Drainage Pipe, **01.06**
- A 445** Discontinued 1974: Specification for Ferritic Iron Castings for Valves, Flanges, Pipe Fittings, and Other Piping Components; Replaced by A 395
- A 446/A446M** Discontinued 1994: Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Structural (Physical) Quality; Replaced by A 653/A 653M
- A 447/A447M-93** Specification for Steel Castings, Chromium-Nickel-Iron Alloy (25-12 Class), for High-Temperature Service, **01.02**
- A 448** Discontinued 1976: Specification for Nickel-Chromium-Iron Alloy Castings (35-15 Class) for High-Temperature Service
- A 449-93** Specification for Quenched and Tempered Steel Bolts and Studs, **15.08**
- A 450/A450M-94** Specification for General Requirements for Carbon, Ferritic Alloy, and Austenitic Alloy Steel Tubes, **01.01**
- A 451-92** Specification for Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service, **01.01**
- A 452-88** Specification for Centrifugally Cast Austenitic Steel Cold-Wrought Pipe for High-Temperature Service, **01.01**
- A 453/A453M-94** Specification for Bolting Materials, High-Temperature, 50 to 120 ksi [345 to 827 MPa] Yield Strength, With Expansion Coefficients Comparable to Austenitic Steels, **01.01, 15.08**
- A 454** Discontinued 1980: Specification for Steel Conveyor Chain

- D 733 **Redesignated F 39**
- D 734 **Discontinued** 1963; Specification for Insulated Wire and Cable: Vinyl Chloride Plastic Insulating Compound; Replaced by D 2219, D 2220
- D 735 **Discontinued** 1968; Specification for Elastomer Compounds for Automotive Applications; Replaced by D 2000
- D 736 **Discontinued** 1966; Method of Test for Low-Temperature Brittleness of Rubber and Rubber-Like Materials
- D 737 **Discontinued** 1995; Test Method for Air Permeability of Textile Fabrics
- D 738 **Discontinued** 1972; Methods of Testing and Tolerances for Rope Made from Bast and Leaf Fibers
- D 739 **Discontinued** 1972; Methods of Testing and Tolerances for Spun, Twisted, or Braided Products Made from Flax, Hemp, Ramie or Mixtures Thereof
- D 740-94 Specification for Methyl Ethyl Ketone, **06.04**
- D 741 **Discontinued** 1972; Methods of Measuring Dimensions of Rigid Rods Used in Electrical Insulation; Replaced by D 668
- D 742 **Discontinued** 1956; Specification for Nonrigid Vinyl Chloride-Acetate Resin Plastics
- D 743 **Discontinued** 1948; Specification for Nonrigid Ethyl Cellulose Plastics
- D 744 **Discontinued** 1956; Specification for Nonrigid Vinyl Chloride Plastics
- D 745 **Discontinued** 1950; Specification for Nonrigid Vinyl Butyral Plastics
- D 746-79(1987) Test Method for Brittleness Temperature of Plastics and Elastomers by Impact, **08.01**
- D 747-93 Test Method for Apparent Bending Modulus of Plastics by Means of a Cantilever Beam, **08.01**
- D 748-71(1994)^{†1} Specification for Natural Block Mica and Mica Films Suitable for Use in Fixed Mica-Dielectric Capacitors, **10.01**
- D 749 **Discontinued** 1976; Method of Calibrating a Light Source Used for Accelerating the Deterioration of Rubber
- D 750-95 Test Method for Rubber Deterioration in Carbon—Arc Weathering Apparatus, **09.01**
- D 751-95 Test Methods for Coated Fabrics, **09.02**
- D 752 **Discontinued** 1984; Specification for Heavy-Duty Block Polychloroprene Jacket for Wire and Cable; Replaced by D 4247
- D 753 **Discontinued** 1984; Specification for General Purpose Polychloroprene Jacket for Wire and Cable; Replaced by D 4247
- D 754 **Discontinued** 1984; Specification for Synthetic Rubber Insulation for Wire and Cable, 75°C Operation
- D 755 **Discontinued** 1984; Specification for Synthetic Rubber Insulation for Wire and Cable, 60°C Operation
- D 756-93 Practice for Determination of Weight and Shape Changes of Plastics Under Accelerated Service Conditions, **08.01**
- D 757 **Discontinued** 1966; Method of Test for Incandescence Resistance of Rigid Plastics in a Horizontal Position
- D 758 **Discontinued** 1969; Method of Test for Impact Resistance of Plastics at Subnormal and Supernormal Temperatures
- D 759 **Discontinued** 1982; Practice for Conducting Physical Property Tests of Plastics at Subnormal and Supernormal Temperatures
- D 760 **Discontinued** 1952; Specification for Enclosures and Servicing Units for Tests Above and Below Room Temperatures
- D 761 **Discontinued** 1952; Specification for Enclosures and Servicing Units for Tests Above and Below Room Temperatures
- D 762 **Discontinued** 1965; Method of Test for Hot Extraction of Asphaltic Materials and Recovery of Bitumen by the Modified Abson Procedure; Replaced by D 1856
- D 763-81(1988)^{†1} Specification for Raw and Burnt Umber Pigments, **06.03**
- D 764 **Discontinued** 1948; Specification for Raw Burnt Umber; Combined with D 763
- D 765-87(1991)^{†1} Specification for Raw and Burnt Sienna Pigments, **06.03**
- D 766 **Discontinued** 1948; Specification for Raw Burnt Sienna; Combined with D 765
- D 767 **Discontinued** 1976; Specification for Venetian Red
- D 768-81(1987)^{†1} Specification for Yellow Iron Oxide Hydrated, **06.03**
- D 769-87(1991)^{†1} Specification for Black Synthetic Iron Oxide, **06.03**
- D 770-90 Specification for Isopropyl Alcohol, **06.04**
- D 771 **Discontinued** 1955; Method of Test for Daylight 45 degree, 0 degree Luminous Directional Reflectance of Paint Finishes
- D 772-86(1993) Test Method for Evaluating Degree of Flaking (Scaling) of Exterior Paints, **06.01**
- D 773 **Discontinued** 1982; Method of Test for Adhesiveness of Gummed Tape
- D 774-92a Test Method for Bursting Strength of Paper, **15.09**
- D 775 **Discontinued** 1993; Method of Drop Test for Loaded Boxes; Replaced by D 5276
- D 776-92 Test Method for Determination of Effect of Dry Heat on Properties of Paper and Board, **15.09**
- D 777-93 Test Methods for Flammability of Treated Paper and Paperboard, **15.09**
- D 778-93 Test Methods for Hydrogen Ion Concentration (pH) of Paper Extracts (Hot-Extraction and Cold-Extraction Procedures), **15.09**
- D 779-94 Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method, **15.09**
- D 780-95 Test Method for Printing Ink Permeation of Paper (Castor Oil Test), **15.09**
- D 781 **Discontinued** 1984; Method of Test for Puncture and Stiffness of Paperboard, Corrugated and Solid Fiberboard
- D 782-82(1993)^{†1} Test Method for Shipping Containers in Revolving Hexagonal Drum, **15.09**
- D 783 **Discontinued** 1948; Tentative Method of Test for Water-Vapor Permeability of Paper and Paperboard; Replaced by E 96
- D 784-95 Specification for Orange Shellac and Other Indian Lacs for Electrical Insulation, **10.01**
- D 785-93 Test Method for Rockwell Hardness of Plastics, and Electrical Insulating Materials, **08.01**
- D 786 **Discontinued** 1982; Specification for Cellulose Acetate Plastic Sheets
- D 787-81(1988)^{†1} Specification for Ethyl Cellulose Molding and Extrusion Compounds, **08.01**
- D 788-93 Classification System for Poly(Methyl Methacrylate) (PMMA) Molding and Extrusion Compounds, **08.01**
- D 789-94 Test Methods for Determination of Relative Viscosity, Melting Point, and Moisture Content of Polyamide (PA), **08.01**
- D 790-92 Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials, **08.01**
- D 790M-92 Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials [Metric], **08.01**
- D 791 **Discontinued** 1967; Method of Test for Luminous Reflectance, Transmittance, and Color of Materials; Replaced by E 308
- D 792-91 Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement, **08.01**
- D 793 **Discontinued** 1982; Method of Test for Short-Time Stability at Elevated Temperatures of Plastics containing Chlorine
- D 794-93 Practice for Determining Permanent Effect of Heat on Plastics, **08.01**
- D 795 **Discontinued** 1971; Recommended Practice for Accelerated Weathering of Plastics Using S-1 Mercury Arc Lamp
- D 796 **Discontinued** 1992; Practice for Compression Molding Test Specimens of Phenolic Molding Compounds; Replaced by D 5224
- D 797 **Discontinued** 1994; Test Methods for Rubber Property—Young's Modulus at Normal and Subnormal Temperatures
- D 798 **Discontinued** 1949; Specification and Methods of Test for Sponge and Expanded Cellular Rubber Products; Replaced by D[1]0559, D 1056
- D 799-74(1995) Specification for Liquid Toilet Soap, **15.04**
- D 800-91 Test Methods of Chemical Analysis of Industrial Metal Cleaning Compositions, **15.04**
- D 801-92 Test Methods for Sampling and Testing Dipentene, **06.03**
- D 802-92 Test Methods for Sampling and Testing Pine Oil, **06.03**
- D 803-93 Test Methods for Testing Tall Oil, **06.03**
- D 804-92 Terminology Relating to Naval Stores, Including Tall Oil and Related Products, **06.03**
- D 805 **Discontinued** 1976; Methods of Testing Veneer, Plywood, and Other Glued Veneer Constructions; Replaced by D 3499, D 3500, D 3501
- D 806-89 Test Method for Cement Content of Soil-Cement Mixtures, **04.08**
- D 807-82(1990)^{†1} Test Method for Assessing the Tendency of Industrial Boiler Waters to Cause Embrittlement (USBM Embrittlement Detector Method), **11.01**
- D 808-91 Test Method for Chlorine in New and Used Petroleum Products (Bomb Method), **05.01**
- D 809 **Discontinued** 1952; Method of Test for Phosphorous in Lubricating Oils, Lubricating Oil Additives and Their Concentrates; Replaced by D 1091
- D 810 **Discontinued** 1963; Methods of Test for Sulfated Residue, Lead, Iron and Copper in Lubricating Oils
- D 811 **Discontinued** 1989; Method for Chemical Analysis for Metals in New and Used Lubricating Oils
- D 812 **Discontinued** 1948; Specification for GR-S (Synthetic Rubber) Sheath Compound for Electrical Insulated Cords and Cables Where Extreme Abrasion Resistance Is Not Required
- D 813-95 Test Method for Rubber Deterioration—Crack Growth, **09.01**
- D 814-95 Test Method for Rubber Property—Vapor Transmission of Volatile Liquids, **09.01**
- D 815 **Discontinued** 1989; Method of Testing Coated Fabrics—Hydrogen Permeance
- D 816-82(1993)^{†1} Methods of Testing Rubber Cements, **09.01**
- D 817-91 Test Methods of Testing Cellulose Acetate Propionate and Cellulose Acetate Butyrate, **06.03**
- D 818 **Discontinued** 1953; Specification for Natural Rubber Cups for Use in Hydraulic Actuating Cylinders
- D 819 **Discontinued** 1959; Specification for Cast Allyl Plastic Sheets, Rods, Tubes, and Shapes
- D 820-93 Test Methods for Chemical Analysis of Soaps Containing Synthetic Detergents, **15.04**
- D 821 **Discontinued** 1984; Method of Evaluating Degree of Abrasion, Erosion, or a Combination of Both in Road Service Test of Traffic Paints
- D 822-89 Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus, **06.01**
- D 823-92a Practices for Producing Films of Uniform Thickness of Paint, Varnish, and Related Products on Test Panels, **06.01**
- D 824-94 Test Method for Rate of Absorption of Water by Bibulous Papers, **15.09**
- D 825 **Discontinued** 1973; Methods of Test for Ply Adhesion of Paper
- D 826 **Discontinued** 1985; Methods of Test for Degree of Wet Curl of Paper
- D 827 **Discontinued** 1981; Method of Test for Edge Tearing Strength of Paper
- D 828-93 Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus, **15.09**
- D 829-93 Test Method for Wet Tensile Breaking Strength of Paper and Paper Products, **15.09**
- D 830 **Discontinued** 1948; Method of Test for Water Vapor Permeability of Paper and Paperboard; Replaced by E 96
- D 831-94 Test Method for Gas Content of Cable and Capacitor Oils, **10.03**

- D 2523-78(1989)^{f1} Practice for Testing Load-Strain Properties of Roofing Membranes, **04.04**
- D 2524-95 Test Method for Breaking Tenacity of Wool Fibers, Flat Bundle Method— $\frac{1}{8}$ -in. (3.2-mm) Gage Length, **07.01**
- D 2525-90(1995) Practice for Sampling Wool for Moisture, **07.01**
- D 2526-90 Specification for Ozone-Resisting Silicone Rubber Insulation for Wire and Cable, **10.02**
- D 2527-83(1992) Specification for Rubber Seals—Splice Strength, **09.02**
- D 2528 Discontinued 1975; Method of Test for Dirt in Casein and Isolated Soy Protein
- D 2529 Discontinued 1985; Method of Test for Bursting Strength of Paperboard and Linerboard
- D 2530 Discontinued 1989; Specification for Nonoriented Polypropylene Plastic Film
- D 2531 Discontinued 1980; Specification for Phenoxy Plastics Molding and Extrusion Materials
- D 2532-93 Test Method for Viscosity and Viscosity Change After Standing at Low Temperature of Aircraft Turbine Lubricants, **05.01**
- D 2533-93a Test Method for Vapor-Liquid Ratio of Spark-Ignition Engine Fuels, **05.01**
- D 2534-88(1993)^{f1} Test Method for Coefficient of Kinetic Friction for Wax Coatings, **05.01**
- D 2535 Redesignated F 304
- D 2536 Redesignated F 305
- D 2537 Redesignated F 306
- D 2538-94 Practice for Fusion of Poly(Vinyl Chloride) (PVC) Resins Using a Torque Rheometer, **08.02**
- D 2539-93 Test Method for Shock Sensitivity of Liquid Monopropellants by the Card-Gap Test, **15.03**
- D 2540-93 Test Method for Drop-Weight Sensitivity of Liquid Monopropellants, **15.03**
- D 2541-93 Test Method for Critical Diameter and Detonation Velocity of Liquid Monopropellants, **15.03**
- D 2542 Redesignated F 309
- D 2543 Redesignated F 310
- D 2544 Redesignated F 307
- D 2545 Redesignated F 308
- D 2546 Redesignated F 315
- D 2547 Discontinued 1991; Test Method for Lead in Gasoline
- D 2548 Discontinued 1979; Method of Test for Analysis of Oil Soluble Petroleum Sulfonates by Liquid Chromatography; Replaced by D 3712
- D 2549-91 Test Method for Separation of Representative Aromatics and Nonaromatics Fractions of High-Boiling Oils by Elution Chromatography, **05.01**
- D 2550 Discontinued 1991; Test Method for Water Separation Characteristics of Aviation Turbine Fuels
- D 2551 Discontinued 1989; Test Method for Vapor Pressure of Petroleum Products
- D 2552 Discontinued 1987; Method of Test for Environmental Stress Rupture of Type III Polyethylenes Under Constant Tensile Load
- D 2553 Discontinued 1992; Test Method for Detecting Odor of Drycleaning Detergent on a Drycleaned Garment
- D 2554 Discontinued 1992; Test Method for Flash Point of Drycleaning Detergents in the Drycleaning Bath
- D 2555-88^{f1} Test Methods for Establishing Clear Wood Strength Values, **04.10**
- D 2556-93a Test Method for Apparent Viscosity of Adhesives Having Shear-Rate-Dependent Flow Properties, **15.06**
- D 2557-93 Test Method for Tensile-Shear Strength of Adhesives in the Subzero Temperature Range from -267.8 to -55°C (-450 to -67°F), **15.06**
- D 2558 Discontinued 1992; Test Method for Evaluating Peel Strength of Shoe Sole-Attaching Adhesives
- D 2559-92 Specification for Adhesives for Structural Laminated Wood Products for Use Under Exterior (Wet Use) Exposure Conditions, **15.06**
- D 2560 Discontinued 1987; Specification for Solvent Cements for Cellulose Acetate Butyrate (CAB) Plastic Pipe, Tubing, and Fittings
- D 2561-91 Test Method for Environmental Stress-Crack Resistance of Blow-Molded Polyethylene Containers, **08.02**
- D 2562-94 Practice for Classifying Visual Defects in Parts Molded from Reinforced Thermosetting Plastics, **08.02**
- D 2563-94 Practice for Classifying Visual Defects in Glass-Reinforced Plastic Laminate Parts, **08.02**
- D 2564-93 Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems, **08.04**
- D 2565-92a Practice for Operating Xenon Arc-Type Light-Exposure Apparatus With and Without Water for Exposure of Plastics, **08.02**
- D 2566 Discontinued 1993; Test Method for Linear Shrinkage of Cured Thermosetting Casting Resins During Cure
- D 2567 Discontinued 1984; Molecular Distribution Analysis for Monoalkylbenzenes by Mass Spectrometry
- D 2568 Discontinued 1980; Recommended Practice for Calculation of Absorbed Dose from Gamma Radiation; Replaced by E 665
- D 2569-91 Test Method for Distillation of Pitch, **04.04**
- D 2570-94 Test Method for Simulated Service Corrosion Testing of Engine Coolants, **15.05**
- D 2571-88 Guide for Testing Wood Furniture Lacquers, **06.02**
- D 2572-91 Test Method for Isocyanate Groups in Urethane Materials or Prepolymers, **06.03**
- D 2573-94 Test Method for Field Vane Shear Test in Cohesive Soil, **04.08**
- D 2574-94 Test Method for Resistance of Emulsion Paints in the Container to Attack by Microorganisms, **06.01**
- D 2575-70(1991)^{f1} Method for Testing Polymerized Fatty Acids, **06.03**
- D 2576 Discontinued 1981; Method of Test for Metals in Water and Waste Water by Atomic Absorption Spectrophotometry
- D 2577 Discontinued 1989; Test Method for Radioactive Cesium in Water
- D 2578-94 Test Method for Wetting Tension of Polyethylene and Polypropylene Films, **08.02**
- D 2579-93 Test Methods for Total and Organic Carbon in Water, **11.02**
- D 2580-94 Test Method for Phenols in Water by Gas-Liquid Chromatography, **11.02**
- D 2581-80(1987)^{f1} Specification for Polybutylene (PB) Plastics Molding and Extrusion Materials, **08.02, 08.04**
- D 2582-93 Test Method for Puncture-Propagation Tear Resistance of Plastic Film and Thin Sheeting, **08.02**
- D 2583-93 Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor, **08.02**
- D 2584-94 Test Method for Ignition Loss of Cured Reinforced Resins, **08.02**
- D 2585-68(1990)^{f1} Test Method for Preparation and Tension Testing of Filament-Wound Pressure Vessels, **15.03**
- D 2586-68(1990)^{f1} Test Method for Hydrostatic Compressive Strength of Glass-Reinforced Plastic Cylinders, **15.03**
- D 2587 Discontinued 1990; Test Method for Acetone Extraction and Ignition of Glass Fiber Strands
- D 2588 Discontinued 1972; Method of Test for Standard Plate Count of Casein and Isolated Soy Protein
- D 2589-88(1993)^{f1} Test Method for McNett Wet Classification of Asbestos Fiber, **04.05**
- D 2590-91 Test Method for Sampling Chrysotile Asbestos, **04.05**
- D 2591 Discontinued 1980; Method of Test for Linear Density of Elastomeric Yarn
- D 2592 Discontinued 1972; Method of Test for Sieve Analysis of Casein and Isolated Soy Protein
- D 2593-93 Test Method for Butadiene Purity and Hydrocarbon Impurities by Gas Chromatography, **05.01**
- D 2594-87^{f1} Test Methods for Stretch Properties of Knitted Fabrics Having Low Power, **07.01**
- D 2595-70(1985) Test Method for Evaporation Loss of Lubricating Greases Over Wide Temperature Range, **05.01**
- D 2596-93 Test Method for Measurement of Extreme-Pressure Properties of Lubricating Grease (Four-Ball Method), **05.01**
- D 2597-94 Test Method for Analysis of Demethanized Hydrocarbon Liquid Mixtures Containing Nitrogen and Carbon Dioxide by Gas Chromatography, **05.02**
- D 2598-91 Practice for Calculation of Certain Physical Properties of Liquefied Petroleum (LP) Gases from Compositional Analysis, **05.02**
- D 2599 Discontinued 1993; Methods of Test for Lead in Gasoline by X-ray Spectrometry
- D 2600 Discontinued 1992; Test Method for Aromatic Traces in Light Saturated Hydrocarbons by Gas Chromatography; Replaced by D 4420
- D 2601 Discontinued 1985; Test Method for Hydrocarbon Types in Propylene Tetramer by Low Ionizing Voltage Mass Spectrometry
- D 2602 Discontinued 1993; Apparent Viscosity of Engine Oils at Low Temperature Using the Cold-Cranking Simulator; Replaced by D 5293
- D 2603-91 Test Method for Sonic Shear Stability of Polymer-Containing Oils, **05.02**
- D 2604-86(1992)^{f1} Specification for High-Boiling Hydrocarbon Solvent for Preparing Oil-Borne Preservative Solutions, **04.10**
- D 2605 Discontinued 1993; Specification for Volatile Petroleum Solvent (LPG) for Preparing Pentachlorophenol Solutions
- D 2606-94 Test Method for Solubility of Pentachlorophenol in Heavy Hydrocarbon Solvents, **04.10**
- D 2607 Discontinued 1992; Classification of Peats, Mosses, Humus, and Related Products
- D 2608 Discontinued 1990; Test Method for Copper in Electrical Insulating Oils by Photometric Analysis
- D 2609-93 Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe, **08.04**
- D 2610 Discontinued 1979; Specification for Butt Fusion Polyethylene (PE) Plastic Pipe Fittings, Schedule 40; Replaced by D 3261
- D 2611 Discontinued 1979; Specification for Butt Fusion Polyethylene (PE) Plastic Pipe Fittings, Schedule 80; Replaced by D 3261
- D 2612-93a Test Method for Fiber Cohesion in Sliver and Top in Static Tests, **07.01**
- D 2613-85(1994)^{f1} Test Method for Calcium or Zinc in Paint Driers by EDTA Method, **06.01**
- D 2614 Discontinued 1971; Method of Test for Giding Poer of Chromatic Paints; Replaced by D 2805
- D 2615 Discontinued 1981; Method of Test for Free Yoluene Diisocyanate in Urethane Polymers by Distillation; Replaced by D 3432
- D 2616-94 Test Method for Evaluation of Visual Color Difference with a Gray Scale, **06.01**
- D 2617-69(1991)^{f1} Test Method for Total Ash in Leather, **15.04**
- D 2618 Discontinued 1984; Method of Test for Pressure Blocking and Picking Points of Petroleum Wax
- D 2619-88(1994)^{f1} Test Method for Hydrolytic Stability of Hydraulic Fluids (Beverage Bottle Method), **05.02**
- D 2620-87 Test Method for Light Stability of Clear Coatings, **06.02**
- D 2621-87 Test Method for Infrared Identification of Vehicle Solids from Solvent-Reducible Paints, **06.01**

- D 4237-90 Test Methods for Rubber Hose Used for Steam Applications, **09.02**
- D 4238-90 Test Method for Electrostatic Propensity of Textiles, **07.02**
- D 4239-94 Test Method for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods, **05.05**
- D 4240-83(1989)^{†1} Test Method for Airborne Asbestos Concentration in Workplace Atmosphere, **11.03**
- D 4241-92 Practice for Design of Gas Turbine Generator Lubricating Oil Systems, **05.02**
- D 4242-91 Test Method for Glass Plate Flow for Thermosetting Coating Powders, **10.02**
- D 4243-86(1993)^{†1} Method for Measurement of Average Viscometric Degree of Polymerization of New and Aged Electrical Papers and Boards, **10.02**
- D 4244-95 Specification for General-Purpose, Heavy-Duty, and Extra-Heavy Duty Acrylonitrile-Butadiene/Polyvinyl Chloride (NBR/PVC) Jackets for Wire and Cable, **10.02**
- D 4245-89 Specification for Ozone-Resistant Thermoplastic Elastomer Insulation for Wire and Cable, 90°C Dry—75°C Wet Operation, **10.02**
- D 4246-89 Specification for Ozone-Resistant Thermoplastic Elastomer Insulation for Wire and Cable, 90°C Operation, **10.02**
- D 4247-95 Specification for General-Purpose Black Heavy-Duty and Black Extra-Heavy Duty Polychloroprene Jackets for Wire and Cable, **10.02**
- D 4248-92 Practice for Design of Steam Turbine Generator Oil Systems, **05.02**
- D 4249-83(1992)^{†1} Test Method for Enumeration of *Candida Albicans* in Water, **11.02**
- D 4250-92 Test Method for Water-Holding Capacity of Bibulous Fibrous Products, **15.09**
- D 4251-89(1995)^{†1} Test Method for Active Matter in Anionic Surfactants by Potentiometric Titration, **15.04**
- D 4252-89(1995)^{†1} Test Methods for Chemical Analysis of Alcohol Ethoxylates and Alkylphenol Ethoxylates, **15.04**
- D 4253-93 Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table, **04.08**
- D 4254-91 Test Method for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density **04.08**
- D 4255/D4255M-83(1994)^{†1} Guide for Testing In-Plane Shear Properties of Composite Laminates, **15.03**
- D 4256-89(1994)^{†1} Test Method for Determination of the Decontaminability of Coatings Used in Light-Water Nuclear Power Plants, **06.02**
- D 4257 *Discontinued 1990; Practice for Design and Use of Safety Alert System for Hazardous Work Locations in the Coatings and Lining Industry*
- D 4258-83(1992) Practice for Surface Cleaning Concrete for Coating, **06.02**
- D 4259-88(1992) Practice for Abrading Concrete, **06.02**
- D 4260-88(1992) Practice for Acid Etching Concrete, **06.02**
- D 4261-83(1993)^{†1} Practice for Surface Cleaning Concrete Unit Masonry for Coating, **06.02**
- D 4262-83(1993)^{†1} Test Method for pH of Chemically Cleaned or Etched Concrete Surfaces, **06.02**
- D 4263-83(1993)^{†1} Test Method for Indicating Moisture in Concrete by The Plastic Sheet Method, **06.02**
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- F 633** *Discontinued 1988; Practice for Use of the High-Speed Printer as a Test Instrument for Carbon Paper; Replaced by F 1175*
- F 634** *Discontinued 1986; Practice for Measurement of the Coating Transfer Resistance of Mechanical Carbonless CB Paper*
- F 635-85(1991)** Guide for Selection of Tests for Material Properties of Liquid Thermoset Encapsulating Compounds for Electronic and Microelectronic Encapsulation, **10.04**
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- F 637-85(1994)⁶¹** Specification for Format, Physical Properties, and Test Methods for 19 and 35 mm Testable Tape Carrier for Perimeter Tape Carrier-Bonded Semiconductor Devices, **10.04**
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- F 644** *Discontinued 1993; Specification for Wrought Cobalt-Chromium Alloy Flexible Wire for Surgical Fixations for Bone; Replaced by F 1091*
- F 645-93** Guide for Selection, Design, and Installation of Thermoplastic Water Pressure Piping Systems, **08.04**
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- F 650** *Discontinued 1990; Practice for Determining Relative Bias of Two Particle Counters Using Comparison Procedures*
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- F 665-80(1993)** Classification for Vinyl Chloride Plastics Used in Biomedical Application, **13.01**
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- F 686-94** Practice for Evaluation of Image Quality Produced by a Carbonless Copy Paper with an Electric and Electronic Typewriter, **15.09**
- F 687** *Discontinued 1988; Practice for On-Site Calibration of Liquid-Borne Automatic Particle Counters With Adjustable Individual Size Thresholds*
- F 688-95** Specification for Wrought Cobalt-35 Nickel-20 Chromium-10 Molybdenum Alloy Plate, Sheet, and Foil for Surgical Implants, **13.01**
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Each ASTM Standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals; PS, provisional standards), a serial number (one to four digits), a dash, and the year of issue.

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- B 111-95** Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock, **02.01**
- B 111M-93** Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock [Metric], **02.01**
- B 112** *Discontinued 1946; Specification for Aluminum-Base Alloys in Ingot Form for Sand Die Castings; Replaced by B 179*
- B 113** *Redesignated F 113*
- B 114-90(1995)^{e1}** Test Method for Temperature-Resistance Constants of Sheet Materials for Shunts and Precision Resistors, **03.04**
- B 115-95** Specification for Electrolytic Cathode Copper, **02.01**
- B 116-95** Specification for Figure-9 Deep-Section Grooved and Figure-8 Copper Trolley Wire for Industrial Haulage, **02.03**
- B 117-95** Practice for Operating Salt Spray (Fog) Apparatus, **03.02**
- B 118** *Discontinued 1948; Specification for Nickel and Nickel-Alloy Wire and Ribbon for Electronic Tube Filaments*
- B 119** *Discontinued 1976; Classification of Cast Copper-Base Alloys; Replaced by B 30, B 584*
- B 120** *Discontinued 1940; Specification for Copper-Base Alloys in Ingot Form for Sand Casting; Replaced by B 30*
- B 121/B121M-95** Specification for Leaded Brass Plate, Sheet, Strip, and Rolled Bar, **02.01**
- B 122/B122M-95** Specification for Copper-Nickel-Tin Alloy, Copper-Nickel-Zinc Alloy (Nickel Silver), and Copper-Nickel Alloy Plate, Sheet, Strip, and Rolled Bar, **02.01**
- B 123** *Discontinued—Replaced by B 30*
- B 124-94** Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes, **02.01**
- B 124M-94** Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes [Metric], **02.01**
- B 125** *Discontinued 1946; Specification for Aluminum-Base Alloys in Ingot Form for Sand Castings, Die Castings, and Permanent Mold Castings; Replaced by B 179*
- B 126** *Discontinued 1947; Specification for Aluminum-Manganese Alloy Sheet and Plate for Use in Welded Pressure Vessels; Replaced by B 209*
- B 127-93a** Specification for Nickel-Copper Alloy (UNS N04400) Plate, Sheet, and Strip, **02.04**
- B 128** *Discontinued 1955; Methods of Testing Sleeves and Tubing for Radio Tube Cathodes*
- B 129-88** Specification for Cartridge Brass Cartridge Case Cups, **02.01**
- B 130-95** Specification for Commercial Bronze Strip for Bullet Jackets, **02.01**
- B 131-88** Specification for Copper Alloy Bullet Jacket Cups, **02.01**
- B 132** *Discontinued 1973; Specification for Leaded High-Strength Yellow Brass (Manganese Bronze) Sand Castings; Replaced by B 584*
- B 133** *Discontinued 1994; Specification for Copper Rod, Bar, and Shapes; Replaced by B 187*
- B 133M** *Discontinued 1994; Specification for Copper Rod, Bar, and Shapes [Metric]; Replaced by B 187M*
- B 134-93** Specification for Brass Wire, **02.01**
- B 135-95** Specification for Seamless Brass Tube, **02.01**
- B 135M-95** Specification for Seamless Brass Tube [Metric], **02.01**
- B 136-84(1993)** Method for Measurement of Stain Resistance of Anodic Coatings on Aluminum, **02.05**
- B 137-95** Test Method for Measurement of Coating Mass Per Unit Area of Anodically Coated Aluminum, **02.05**
- B 138-92** Specification for Manganese Bronze Rod, Bar, and Shapes, **02.01**
- B 138M-92** Specification for Manganese Bronze Rod, Bar, and Shapes [Metric], **02.01**
- B 139-95** Specification for Phosphor Bronze Rod, Bar, and Shapes, **02.01**
- B 139M-95** Specification for Phosphor Bronze Rod, Bar, and Shapes [Metric], **02.01**
- B 140-92** Specification for Copper-Zinc-Lead (Leaded Red Brass or Hardware Bronze) Rod, Bar, and Shapes, **02.01**
- B 140M-92** Specification for Copper-Zinc-Lead (Leaded Red Brass or Hardware Bronze) Rod, Bar, and Shapes [Metric], **02.01**
- B 141** *Discontinued 1967; Specification for Electrodeposited Coatings of Nickel and Chromium on Copper and Copper-Base Alloys; Replaced by B 456*
- B 142** *Discontinued 1967; Specification for Electrodeposited Coatings of Nickel and Chromium on Zinc and Zinc-Base Alloys; Replaced by B 456*
- B 143** *Discontinued 1973; Specification for Tin-Bronze and Leaded Tin-Bronze Sand Castings; Replaced by B 584*
- B 144** *Discontinued 1973; Specification for High-Leaded Tin-Bronze Sand Castings; Replaced by B 584*
- B 145** *Discontinued 1973; Specification for Leaded Red Brass and Leaded Semi-Red Brass Sand Castings; Replaced by B 584*
- B 146** *Discontinued 1973; Specification for Leaded Yellow Brass Sand Castings for General Purposes; Replaced by B 584*
- B 147** *Discontinued 1973; Specification for High-Strength Yellow Brass (Manganese Bronze) and Leaded High-Strength Yellow Brass (Leaded Manganese Bronze) Sand Castings; Replaced by B 584*
- B 148-93a** Specification for Aluminum-Bronze Sand Castings, **02.01**
- B 149** *Discontinued 1973; Specification for Leaded Nickel-Brass (Leaded Nickel-Silver) and Leaded Nickel-Bronze (Leaded Nickel-silver); Replaced by B 584*
- B 150-95a** Specification for Aluminum Bronze Rod, Bar, and Shapes, **02.01**
- B 150M-95a** Specification for Aluminum Bronze Rod, Bar, and Shapes [Metric], **02.01**
- B 151-94** Specification for Copper-Nickel-Zinc Alloy (Nickel Silver) and Copper-Nickel Rod and Bar, **02.01**
- B 151M-94** Specification for Copper-Nickel-Zinc Alloy (Nickel Silver) and Copper-Nickel Rod and Bar [Metric], **02.01**
- B 152-94** Specification for Copper Sheet, Strip, Plate, and Rolled Bar, **02.01**
- B 152M-95** Specification for Copper Sheet, Strip, Plate, and Rolled Bar [Metric], **02.01**
- B 153-91** Test Method for Expansion (Pin Test) of Copper and Copper-Alloy Pipe and Tubing, **02.01**
- B 154-95** Test Method for Mercurous Nitrate Test for Copper and Copper Alloys, **02.01**
- B 155** *Redesignated F 155*
- B 156** *Discontinued 1948; Method of Testing Local Thickness of Electrodeposited Coatings; Replaced by F 219*
- B 157** *Discontinued 1955; Methods of Testing Wire for Supports Used in Electronic Devices and Lamps*
- B 158** *Discontinued 1942; Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members for Electrical Conductors; Replaced by B 172, B 173, B 174*
- B 159-93** Specification for Phosphor Bronze Wire, **02.01**
- B 159M-94** Specification for Phosphor Bronze Wire [Metric], **02.01**
- B 160-93** Specification for Nickel Rod and Bar, **02.04**
- B 161-93** Specification for Nickel Seamless Pipe and Tube, **02.04**
- B 162-93a** Specification for Nickel Plate, Sheet, and Strip, **02.04**
- B 163-95a^{e1}** Specification for Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes, **02.04**
- B 164-93** Specification for Nickel-Copper Alloy Rod, Bar, and Wire, **02.04**
- B 165-93** Specification for Nickel-Copper Alloy (UNS N04400) Seamless Pipe and Tube, **02.04**
- B 166-95** Specification for Nickel-Chromium-Iron Alloys (UNS N06600, N06601, and N06690) and Nickel-Chromium-Cobalt-Molybdenum Alloy (UNS N06617) Rod, Bar, and Wire, **02.04**
- B 167-94a** Specification for Nickel-Chromium-Iron Alloy (UNS N06600, N06601, and N06690) Seamless Pipe and Tube, **02.04**
- B 168-95a** Specification for Nickel-Chromium-Iron Alloys (UNS N06600, N06601, and N06690) and Nickel-Chromium-Cobalt-Molybdenum Alloy (UNS N06617) Plate, Sheet, and Strip, **02.04**
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- B 169M-88** Specification for Aluminum Bronze Plate, Sheet, Strip, and Rolled Bar [Metric], **02.01**
- B 170-93** Specification for Oxygen-Free Electrolytic Copper—Refinery Shapes, **02.01**
- B 171-95** Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers, and Heat Exchangers, **02.01**
- B 171M-91a^{e1}** Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers [Metric], **02.01**
- B 172-95** Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors, **02.03**
- B 173-95** Specification for Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members, for Electrical Conductors, **02.03**
- B 174-95** Specification for Bunch-Stranded Copper Conductors for Electrical Conductors, **02.03**
- B 175** *Discontinued 1955; Specification for Round Nickel Wire for Lamps and Electric Devices*
- B 176-95** Specification for Copper-Alloy Die Castings, **02.01**
- B 177-93** Practice for Chromium Electroplating on Steel for Engineering Use, **02.05**
- B 178** *Discontinued 1957; Specification for Aluminum-Alloy Sheet and Plate for Pressure Vessel Application; Replaced by B 209*
- B 179-95a** Specification for Aluminum Alloys in Ingot Form for Castings from All Casting Processes, **02.02**
- B 180** *Redesignated F 180*
- B 181** *Discontinued 1970; Method of Testing Effect of Controlled Atmospheres Upon Alloys in Electric Furnaces*
- B 182** *Discontinued 1982; Method for Life Test of Electrical Contact Materials*

- Penetration, for Use in Asphalt-Macadam Pavements
- D 103 Discontinued 1940; Specification for Asphalt Cement, 100 to 120 Penetration, for Use in Asphalt-Macadam Pavements
- D 104 Discontinued 1939; Specification for High Carbon Tar for Surface Treatment, Cold Application; Replaced by D 490
- D 105 Discontinued 1939; Specification for Low-Carbon Tar for Surface Treatment, Cold Application; Replaced by D 490
- D 106 Discontinued 1939; Specification for High Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product); Replaced by D 490
- D 107 Discontinued 1939; Specification for Low Carbon Tar Cement, for Use Cold in Repair Work (Cut-Back Product); Replaced by D 490
- D 108 Discontinued 1939; Specification for High Carbon Tar for Surface Treatment, Hot Application; Replaced by D 490
- D 109 Discontinued 1939; Specification for Low Carbon Tar for Surface Treatment, Hot Application; Replaced by D 490
- D 110 Discontinued 1939; Specification for High Carbon Tar Cement; Replaced by D 490
- D 111 Discontinued 1939; Specification for Low Carbon Tar Cement; Replaced by D 490
- D 112 Discontinued 1963; Specification for Coal-Tar Pitch for Stone Block Filler
- D 113-86(1992) Test Method for Ductility of Bituminous Materials, 04.03
- D 114 Discontinued 1924; Method of Test for Water in Petroleum Products and Other Bituminous Materials; Replaced by D 95
- D 115-93a Test Methods for Varnishes Used for Electrical Insulation, 10.01
- D 116-86(1994)⁶¹ Test Methods for Vitrified Ceramic Materials for Electrical Applications, 15.02
- D 117-89 Guide to Test Methods and Specifications for Electrical Insulating Oils of Petroleum Origin, 10.03
- D 118 Discontinued 1963; Specification for 4-One, and Similar Type Boxes
- D 119 Discontinued 1986; Specification for Low-Voltage Rubber Insulating Tape
- D 120-95 Specification for Rubber Insulating Gloves, 10.03
- D 121-95 Terminology of Coal and Coke, 05.05
- D 122 Discontinued 1993; Tolerances for Tire Fabrics Other Than Tire Cord Fabrics
- D 123-96 Terminology Relating to Textiles, 07.01
- D 124-88(1992)⁶¹ Specification for Degummed Soybean Oil, 06.03
- D 125 Discontinued 1955; Specification for Perilla Oil, Raw or Refined
- D 126-87 (1991)⁶¹ Test Methods for Analysis of Yellow, Orange, and Green Pigments Containing Lead Chromate and Chromium Oxide Green, 06.03
- D 127-87(1993)⁶¹ Test Method for Drop Melting Point of Petroleum Wax, Including Petrolatum, 05.01
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- D 129-95 Test Method for Sulfur in Petroleum Products (General Bomb Method), 05.01
- D 130-94 Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test, 05.01
- D 131 Discontinued 1963; Specification for Recent Granite Block for Pavements
- D 132 Discontinued 1963; Specification for Granite Block for Purax Pavements
- D 133 Discontinued 1940; Specification for Asphalt Cement, 10 to 15 Penetration, for the Manufacture of Asphalt Block
- D 134 Discontinued 1940; Specification for Asphalt Cement, 15 to 25 Penetration, for the Manufacture of Asphalt Block
- D 135 Discontinued 1940; Specification for Asphalt Cement, 120 to 150 Penetration, for Use in Asphalt-Macadam Pavements
- D 136 Discontinued 1938; Method of Test for Amount of Material Finer than 200 Sieve in Aggregates; Replaced by C 117
- D 137 Discontinued 1927; Method of Mechanical Analysis of Subgrade Soils
- D 138 Redesignated C 143
- D 139-95 Test Method for Float Test for Bituminous Materials, 04.03
- D 140-93 Practice for Sampling Bituminous Materials, 04.03
- D 141 Discontinued 1973; Method of Drop Shatter Test for Coke; Replaced by D 3038
- D 142 Discontinued 1941; Definition of Terms Relating to Coal and Coke; Replaced by D 1212
- D 143-94 Method of Testing Small Clear Specimens of Timber, 04.10
- D 144 Discontinued 1938; Specification for Asphalt for Damp-proofing and Waterproofing; Replaced by D 449
- D 145 Discontinued 1938; Specification for Coal-Tar Pitch for Roofing, Damp-proofing and Waterproofing; Replaced by D 449
- D 146-90 Test Methods for Sampling and Testing Bitumen-Saturated Felts and Fabrics Used in Roofing and Waterproofing, 04.04
- D 147 Discontinued 1985; Methods of Testing Bituminous Mastics
- D 148 Discontinued 1924; Methods of Sampling Bituminous Materials Shipped in Barrels or Drums; Combined with D 449
- D 149-95a Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies, 10.01
- D 150-95 Test Methods for A-C Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulating Materials, 10.01
- D 151 Discontinued 1940; Specification for Rubber Pump Valves
- D 152 Discontinued 1931; Methods of Testing Cotton Fibers
- D 153-84(1989)⁶¹ Test Methods for Specific Gravity of Pigments, 06.03
- D 154-85(1989)⁶¹ Guide for Testing Varnishes, 06.03
- D 155 Discontinued 1960; Method of Test for Color of Lubricating Oil and Petrolatum by Means of ASTM Union Colorimeter; Replaced by D 1500
- D 156-94 Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method), 05.01
- D 157 Discontinued 1957; Method of Test for Steam Emulsion of Lubricating Oils; Replaced by D 1401
- D 158 Discontinued 1963; Method of Test for Distillation of Gas Oil and Similar Distillate Fuel Oils; Replaced by D 86
- D 159 Discontinued 1939; Specification for Crushed Stone and Crushed Slag for Bituminous Macadam Base and Surface Courses of Pavements; Replaced by D 693
- D 160 Discontinued 1939; Specification for Crushed Stone, Crushed Slag, and Gravel for Bituminous Concrete Base and Surface Courses of Pavements; Replaced by D 692
- D 161 Discontinued 1939; Specification for Crushed Stone, Crushed Slag, and Gravel for Bituminous Concrete Base and Surface Courses of Pavements; Replaced by D 692
- D 162 Discontinued 1950; Specification for Fine Aggregate for Sheet Asphalt and Bituminous Concrete Pavements; Replaced by D 1073
- D 163 Discontinued 1940; Specification for Asphalt Cement, 25 to 30 Penetration, for Use in Sheet Asphalt and Asphaltic-Concrete Pavements
- D 164 Discontinued 1940; Specification for Asphalt Cement, 30 to 40 Penetration, for Use in Sheet Asphalt and Asphaltic-Concrete Pavements
- D 165 Discontinued 1967; Method of Test for Proportion of Bitumen Soluble in Carbon Tetrachloride; Replaced by D 2042
- D 166 Discontinued 1963; Specification for Gas and Coking Coals
- D 167-93 Test Method for Apparent and True Specific Gravity And Porosity of Lump Coke, 05.05
- D 168-94 Test Method for Coke Residue of Creosote, 04.10
- D 169 Discontinued 1963; Specification for Asphalt Mastic for Use in Waterproofing (Asphalt Cement, Mineral Filler, Mineral Aggregate); Replaced by D 491
- D 170 Discontinued 1977; Specification for Bituminous Grout for Use in Waterproofing Above Ground Level
- D 171 Discontinued 1977; Specification for Bituminous Grout for Use in Waterproofing Below Ground Level
- D 172 Discontinued 1926; Specification for Coal-Tar Saturated Roofing Melt for Use in Waterproofing and in Constructing Built Up Roofs; Replaced by D 226, D 227
- D 173-95 Specification for Bitumen-Saturated Cotton Fabrics Used in Roofing and Waterproofing, 04.04
- D 174 Discontinued 1939; Specification for Burlap Saturated with Bituminous Substances for Use in Waterproofing
- D 175 Discontinued 1929; Methods of Testing Electrical Insulating Materials for Voltage Effects at Radio Frequencies
- D 176-91 Test Methods for Solid Filling and Treating Compounds Used for Electrical Insulation, 10.01
- D 177 Discontinued 1934; Methods of Testing Rubber Hose; Replaced by D 380
- D 178-93 Specification for Rubber Insulating Matting, 10.03
- D 179 Discontinued 1975; Methods of Testing Cotton Tire Cords and Cord Fabrics Made from Cotton
- D 180 Discontinued 1968; Methods of Testing Tolerances for Cotton Yarns; Replaced by D 2645
- D 181 Discontinued 1976; Specification for Tolerances for Cotton Fabrics for Manufacture of Hose and Belts
- D 182 Discontinued 1940; Specification for ASTM Thermometer; Replaced by E 1
- D 183 Discontinued 1940; Specification for ASTM Thermometer; Replaced by E 1
- D 184 Discontinued 1940; Specification for ASTM Thermometer; Replaced by E 1
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- D 186 Discontinued 1940; Methods of Chemical Analysis of White Pigments; Combined with D 34
- D 187-94 Test Method for Burning Quality of Kerosine, 05.01
- D 188 Discontinued 1943; Methods of Test for Neutralization of Acid And Base Members by Potentiometric Titration; Replaced by D 664, D 974
- D 189-95 Test Method for Conradson Carbon Residue of Petroleum Products, 05.01
- D 190 Discontinued 1939; Specification for Crushed Stone, Crushed Slag, and Gravel for Water-Bound Macadam Base and Surface Courses of Pavements; Replaced by D 693
- D 191 Discontinued 1939; Specification for Crushed Stone, Crushed Slag, and Gravel for Waterbound Macadam Base and Surface Courses of Pavements; Replaced by D 693
- D 192 Discontinued 1943; Specification for Crushed Stone and Crushed Slag for Bituminous Macadam Base and Surface Courses of Pavements; Replaced by D 693
- D 193 Discontinued 1939; Specification for Broken and Crushed Slag Stone for Bituminous Macadam Base and Surface Courses of Pavements; Replaced by D 693
- D 194 Discontinued 1939; Specification for Crushed Stone and Crushed Slag for Bituminous Macadam Base and Surface Courses of Pavements; Replaced by D 693
- D 195 Discontinued 1939; Specification for Crushed Stone and Crushed Slag for Bituminous Macadam Base and Surface Courses of Pavements; Replaced by D 693
- D 196 Discontinued 1939; Specification for Crushed Stone, Crushed Slag, and Gravel for Bituminous Concrete Base and Surface Courses of Pavements; Replaced by D 692
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- D 1538-60(1992)⁶¹ Specification for Distilled Linseed Fatty Acids, 06.03
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- D 1550-94 ASTM Butadiene Measurement Tables, 05.01
- D 1551 *Discontinued 1977; Method of Test for Sulfur in Petroleum Oils (Quartz-Tube Method)*
- D 1552-95 Test Method for Sulfur in Petroleum Products (High-Temperature Method), 05.01
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- D 1592 *Discontinued 1962; Specification for Glass Fabric Reinforced Epoxy Resin Laminates; Combined with D 709*
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Each ASTM standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals; PS, provisional standards), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1997 have as their final number, 97. A letter following this number indicates more than one revision during that year, that is 97a indicates the second revision in 1997, 97b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1997). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

If a standard is written in inch-pound units (or other units) and acceptable metric units, the document is identified by dual alphanumeric designation.

When reference is made to a standard, the *complete* designation should be given. Best practice is to state the *designation and title*.

The boldface number(s) following the title refer to the volume(s) of the *Annual Book of ASTM Standards* in which the standard appears.

This list includes only those standards which appear in the 1997 edition of each volume of the *Annual Book of ASTM Standards*. New and revised standards that were approved after the closing date for the volume are available as separate reprints and will be listed in next year's edition.

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B. NONFERROUS METALS

- B 1-95** Specification for Hard-Drawn Copper Wire, **02.03**
B 2-94 Specification for Medium-Hard-Drawn Copper Wire, **02.03**
B 3-95 Specification for Soft or Annealed Copper Wire, **02.03**
B 4 Discontinued 1981; Specification Tough-Pitch Lake Copper-Refinery Shapes
B 5-95 Specification for Electrolytic Tough-Pitch Copper Refinery Shapes, **02.01**
B 6-95a Specification for Zinc, **02.04**
B 7 Discontinued 1941; Specification for Copper-Base Alloys in Ingot Form for Sand Castings; Replaced by B 30
B 8-95 Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft, **02.03**
B 9-90 Specification for Bronze Trolley Wire, **02.03**
B 10 Discontinued 1934; Specification for Tin-Bronze and Leaded Tin-Bronze Sand Castings
B 11 Discontinued 1981; Specification for Copper Plates for Locomotive Fireboxes
B 12 Discontinued 1982; Specification for Copper Rods for Locomotive Staybolts; Replaced by B 133
B 13 Discontinued 1961; Specification for Seamless Copper Boiler Tubes
B 14 Discontinued 1955; Specification for Seamless Brass Boiler Tubes
B 15 Discontinued 1939; Specification for Copper and Copper-Base Alloy Forging Rod, Bar, and Shapes; Replaced by B 124
B 16-92 Specification for Free-Cutting Brass Rod, Bar, and Shapes for Use in Screw Machines, **02.01**
B 16M-92 Specification for Free-Cutting Brass Rod, Bar, and Shapes for Use in Screw Machines [Metric], **02.01**
B 17 Discontinued 1927; Specification for Bronze Castings in the Rough for Locomotive Wearing Parts; Replaced by B 66, B 67
B 18 Discontinued 1942; Methods of Testing Chemical Analysis of Lead, Tin, and Base Solder Metal; Replaced by E 46
B 19-86(1993)^{e1} Specification for Cartridge Brass Sheet, Strip, Plate, Bar, and Disks (Blanks), **02.01**
B 20 Discontinued 1940; Specification for Cartridge Brass Sheet, Strip, Plate, Bar, and Disks; Combined with B 19
B 21-96 Specification for Naval Brass, Rod, Bar, and Shapes, **02.01**
B 21M-96 Specification for Naval Brass, Rod, Bar, and Shapes [Metric], **02.01**
B 22-95 Specification for Bronze Castings for Bridges and Turntables, **02.01**
B 23-94 Specification for White Metal Bearing Alloys (Known Commercially as Babbitt Metal), **02.04**
B 24 Discontinued 1956; Specification for Aluminum Ingots for Remelting
B 25 Discontinued 1946; Specification for Aluminum Alloy Sheet and Plate; Replaced by B 209
B 26/B26M-96a Specification for Aluminum-Alloy Sand Castings, **02.02**
B 27 Discontinued 1943; Methods of Testing Chemical Analysis for Sulfur in Special Brasses and Bronzes; Replaced by E 54
B 28 Discontinued 1943; Methods of Testing Chemical Analysis of Special Brasses and Bronzes; Replaced by E 54
B 29-92 Specification for Refined Lead, **02.04**
B 30-96 Specification for Copper-Base Alloys in Ingot Form, **02.01**
B 31 Discontinued 1932; Specification for Copper-Base Alloys in Ingot Form for Sand Casting; Replaced by B 30
B 32-96 Specification for Solder Metal, **02.04**
B 33-94 Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes, **02.03**
B 34 Redesignated E 53
B 35 Discontinued 1942; Methods of Testing Chemical Analysis of Pig Lead; Replaced by E 37
B 36/B36M-95 Specification for Brass Plate, Sheet, Strip, and Rolled Bar, **02.01**
B 37-96 Specification for Aluminum for Use in Iron and Steel Manufacture, **02.02**
B 38 Discontinued 1942; Methods of Testing Chemical Analysis of Slab Zinc (Spelter); Replaced by E 40
B 39-79(1993) Specification for Nickel, **02.04**
B 40 Discontinued 1942; Photometric Methods for Chemical Analysis of Aluminum and Aluminum Base Alloys; Replaced by E 34
B 41 Discontinued 1942; Method for Testing Chemical Analysis of Nickel; Replaced by E 39
B 42-96 Specification for Seamless Copper Pipe, Standard Sizes, **02.01**
B 43-96 Specification for Seamless Red Brass Pipe, Standard Sizes, **02.01**
B 44 Discontinued 1937; Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock; Replaced by B 111
B 45 Discontinued 1942; Methods of Testing Chemical Analysis of Brasses
B 46 Discontinued 1943; Methods of Testing Chemical Analysis for Sulfur in Special Brasses and Bronzes; Replaced by E 54
B 47-95a Specification for Copper Trolley Wire, **02.03**
B 48-92 Specification for Soft Rectangular and Square Bare Copper Wire for Electrical Conductors, **02.03**
B 49-92 Specification for Copper Redraw Rod for Electrical Purposes, **02.01**
B 50 Discontinued 1937; Specification for Non-Ferrous Insect Screen Cloth
B 51 Discontinued 1945; Specification for Phosphor Tin
B 52 Discontinued 1980; Specification for Phosphor Copper; Replaced by B 644
B 53 Discontinued 1980; Specification for Silicon Copper; Replaced by B 644
B 54 Discontinued 1941; Specification for High-Strength Yellow Brass (Manganese Bronze) and Leaded High-Strength Yellow Brass (Leaded Manganese Bronze) Sand Castings
B 55 Discontinued 1937; Specification for Seamless 70-30 Brass Condenser Tubes and Ferrule Stock
B 56 Discontinued 1937; Specification for Seamless Muntz Metal Condenser Tubes and Ferrule Stock; Replaced by B 111
B 57 Discontinued 1942; Specification for Copper-Alloy Condenser Tube Plates; Replaced by B 171
B 58 Discontinued 1946; Specification for Aluminum-Base Alloys in Ingot Form for Sand Castings; Replaced by B 179
B 59 Discontinued 1941; Specification for Aluminum-Bronze Sand Castings; Replaced by B 148
B 60 Discontinued 1944; Specification for Tin-Bronze and Leaded Tin-bronze Sand Castings; Replaced by B 143
B 61-93 Specification for Steam or Valve Bronze Castings, **02.01**
B 62-93 Specification for Composition Bronze or Ounce Metal Castings, **02.01**
B 63-90(1995)^{e1} Test Method for Resistivity of Metallecally Conducting Resistance and Contact Materials, **03.04**
B 64 Discontinued 1952; Specification for Brazing Solder
B 65 Discontinued 1938; Specification for Lead Yellow Brass Sand Castings for General Purposes
B 66-95 Specification for Bronze Castings for Steam Locomotive Wearing Parts, **02.01**
B 67-93a Specification for Car and Tender Journal Bearings, Lined, **02.01**
B 68-96 Specification for Seamless Copper Tube, Bright Annealed, **02.01**
B 68M-96 Specification for Seamless Copper Tube, Bright Annealed [Metric], **02.01**
B 69-95a Specification for Rolled Zinc, **02.04**
B 70-90(1995)^{e1} Test Method for Change of Resistance With Temperature of Metallic Materials for Electrical Heating, **03.04**
B 71 Discontinued 1942; Methods of Testing Chemical Analysis of Nickel-Chromium and Nickel-Chromium-Iron Alloys
B 72 Discontinued 1977; Specification for Fire-Refined Casting Copper
B 73 Discontinued 1953; Specification for Silver Solders
B 74 Discontinued 1941; Specification for High-Leaded Tin-Bronze Sand Castings
B 75-95a Specification for Seamless Copper Tube [Metric], **02.01**
B 75M-95 Specification for Seamless Copper Tube [Metric], **02.01**
B 76-90(1995)^{e1} Test Method for Accelerated Life of Nickel-Chromium and Nickel-Chromium-Iron Alloys for Electrical Heating, **03.04**
B 77-81(1994)^{e1} Test Method for Thermoelectric Power of Electrical-Resistance Alloys, **03.04**
B 78-90(1995)^{e1} Test Method for Accelerated Life of Iron-Chromium-Aluminum Alloys for Electrical Heating, **03.04**
B 79 Discontinued 1946; Specification for Aluminum and Aluminum Alloy Sheet and Plate; Replaced by B 209
B 80-93 Specification for Magnesium-Alloy Sand Castings, **02.02**
B 81 Redesignated E 56
B 82 Discontinued 1959; Specification for Drawn or Rolled Alloy 80 Percent Nickel, 20 Percent Chromium, for Electrical-Heating Elements; Replaced by B 344
B 83 Discontinued 1959; Specification for Drawn or Rolled Alloy, 60 Percent Nickel, 16 Percent Chromium, and Balance Iron, for Electrical-Heating Elements; Replaced by B 344
B 84-90(1995)^{e1} Test Method for Temperature-Resistance Constants of Alloy Wires for Precision Resistors, **03.04**
B 85-96 Specification for Aluminum-Alloy Die Castings, **02.02**
B 86-95 Specification for Zinc-Alloy Die Castings, **02.04**
B 87 Discontinued 1938; Specification for Hard-Drawn Copper Transmission Cable; Replaced by B 8
B 88-96 Specification for Seamless Copper Water Tube, **02.01**
B 88M-96 Specification for Seamless Copper Water Tube [Metric], **02.01**
B 89 Discontinued 1946; Specification for Aluminum and Aluminum-Alloy Bars, Rods, and Wire; Replaced by B 211
B 90M Discontinued 1993; Replaced by B 90/B 90M
B 90/B90M-93 Specification for Magnesium-Alloy Sheet and Plate, **02.02**
B 91-92 Specification for Magnesium-Alloy Forgings, **02.02**
B 92M Discontinued 1990; Replaced by B 92/B 92M
B 92/B92M-89(1994)^{e1} Specification for Magnesium Ingot and Stick for Remelting, **02.02**
B 93M Discontinued 1990; Replaced by B 93/B 93M
B 93/B93M-94b Specification for Magnesium Alloys in Ingot Form for Sand Castings, Permanent Mold Castings, and Die Castings, **02.02**
B 94-94 Specification for Magnesium-Alloy Die Castings, **02.02**
B 95 Discontinued 1985; Method of Testing Linear Expansion of Metals; Replaced by E 228
B 96-93 Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes and Pressure Vessels, **02.01**
B 96M-93a Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes and Pressure Vessels [Metric], **02.01**
B 97 Discontinued 1982; Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes; Combined with B 96
B 98-93 Specification for Copper-Silicon Alloy Rod, Bar, and Shapes, **02.01**
B 98M-93 Specification for Copper-Silicon Alloy Rod, Bar, and Shapes [Metric], **02.01**
B 99M Discontinued 1996; Replaced by B 99/B 99M

- B 99/B99M-96** Specification for Copper-Silicon Alloy Wire for General Applications, **02.01**
- B 100-97** Specification for Wrought Copper-Alloy Bearing and Expansion Plates and Sheets for Bridge and Other Structural Use, **02.01**
- B 101-96** Specification for Lead-Coated Copper Sheet and Strip for Building Construction, **02.01**
- B 102-93** Specification for Lead and Tin Alloy Die Castings, **02.04**
- B 103/B103M-93** Specification for Phosphor Bronze Plate, Sheet, Strip, and Rolled Bar, **02.01**
- B 104** Discontinued 1937; Specification for Seamless Copper-Nickel Alloy Condenser Tubes and Ferrule Stock; Replaced by B 111
- B 105-94** Specification for Hard-Drawn Copper Alloy Wires for Electric Conductors, **02.03**
- B 106-96** Test Method for Flexivity of Thermostat Metals, **03.04**
- B 107M** Discontinued 1992; Replaced by B 107/B 107M
- B 107/B107M-94** Specification for Magnesium-Alloy Extruded Bars, Rods, Shapes, Tubes, and Wire, **02.02**
- B 108-97** Specification for Aluminum-Alloy Permanent Mold Castings, **02.02**
- B 109** Discontinued 1946; Specification for Aluminum and Aluminum Alloy Sheet and Plate; Replaced by B 209
- B 110** Discontinued 1982; Method of Testing Dielectric Strength of Anodically Coated Aluminum
- B 111-95** Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock, **02.01**
- B 111M-93** Specification for Copper and Copper-Alloy Seamless Condenser Tubes and Ferrule Stock [Metric], **02.01**
- B 112** Discontinued 1946; Specification for Aluminum-Base Alloys in Ingot Form for Sand Die Castings; Replaced by B 179
- B 113** Redesignated F 113
- B 114-90(1995)^{e1}** Test Method for Temperature-Resistance Constants of Sheet Materials for Shunts and Precision Resistors, **03.04**
- B 115-95** Specification for Electrolytic Cathode Copper, **02.01**
- B 116-95** Specification for Figure-9 Deep-Section Grooved and Figure-8 Copper Trolley Wire for Industrial Haulage, **02.03**
- B 117-95** Practice for Operating Salt Spray (Fog) Apparatus, **03.02**
- B 118** Discontinued 1948; Specification for Nickel and Nickel-Alloy Wire and Ribbon for Electronic Tube Filaments
- B 119** Discontinued 1976; Classification of Cast Copper-Base Alloys; Replaced by B 30, B 584
- B 120** Discontinued 1940; Specification for Copper-Base Alloys in Ingot Form for Sand Casting; Replaced by B 30
- B 121/B121M-95** Specification for Leaded Brass Plate, Sheet, Strip, and Rolled Bar, **02.01**
- B 122/B122M-95** Specification for Copper-Nickel-Tin Alloy, Copper-Nickel-Zinc Alloy (Nickel Silver), and Copper-Nickel Alloy Plate, Sheet, Strip, and Rolled Bar, **02.01**
- B 123** Discontinued—Replaced by B 30
- B 124-96** Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes, **02.01**
- B 124M-96** Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes [Metric], **02.01**
- B 125** Discontinued 1946; Specification for Aluminum-Base Alloys in Ingot Form for Sand Castings, Die Castings, and Permanent Mold Castings; Replaced by B 179
- B 126** Discontinued 1947; Specification for Aluminum-Manganese Alloy Sheet and Plate for Use in Welded Pressure Vessels; Replaced by B 209
- B 127-93a** Specification for Nickel-Copper Alloy (UNS N04400) Plate, Sheet, and Strip, **02.04**
- B 128** Discontinued 1955; Methods of Testing Sleeves and Tubing for Radio Tube Cathodes
- B 129-96** Specification for Cartridge Brass Cartridge Case Cups, **02.01**
- B 130-95** Specification for Commercial Bronze Strip for Bullet Jackets, **02.01**
- B 131-96** Specification for Copper Alloy Bullet Jacket Cups, **02.01**
- B 132** Discontinued 1973; Specification for Leaded High-Strength Yellow Brass (Manganese Bronze) Sand Castings; Replaced by B 584
- B 134-96** Specification for Brass Wire, **02.01**
- B 135-96** Specification for Seamless Brass Tube [Metric], **02.01**
- B 136-84(1993)** Method for Measurement of Stain Resistance of Anodic Coatings on Aluminum, **02.05**
- B 137-95** Test Method for Measurement of Coating Mass Per Unit Area of Anodically Coated Aluminum, **02.05**
- B 138-96** Specification for Manganese Bronze Rod, Bar, and Shapes [Metric], **02.01**
- B 138M-96** Specification for Manganese Bronze Rod, Bar, and Shapes [Metric], **02.01**
- B 139-95** Specification for Phosphor Bronze Rod, Bar, and Shapes, **02.01**
- B 139M-95** Specification for Phosphor Bronze Rod, Bar, and Shapes [Metric], **02.01**
- B 140-92** Specification for Copper-Zinc-Lead (Leaded Red Brass or Hardware Bronze) Rod, Bar, and Shapes, **02.01**
- B 140M-92** Specification for Copper-Zinc-Lead (Leaded Red Brass or Hardware Bronze) Rod, Bar, and Shapes [Metric], **02.01**
- B 141** Discontinued 1967; Specification for Electrodeposited Coatings of Nickel and Chromium on Copper and Copper-Base Alloys; Replaced by B 456
- B 142** Discontinued 1967; Specification for Electrodeposited Coatings of Nickel and Chromium on Zinc and Zinc-Base Alloys; Replaced by B 456
- B 143** Discontinued 1973; Specification for Tin-Bronze and Leaded Tin-Bronze Sand Castings; Replaced by B 584
- B 144** Discontinued 1973; Specification for High-Leaded Tin-Bronze Sand Castings; Replaced by B 584
- B 145** Discontinued 1973; Specification for Leaded Red Brass and Leaded Semi-Red Brass Sand Castings; Replaced by B 584
- B 146** Discontinued 1973; Specification for Leaded Yellow Brass Sand Castings for General Purposes; Replaced by B 584
- B 147** Discontinued 1973; Specification for High-Strength Yellow Brass (Manganese Bronze) and Leaded High-Strength Yellow Brass (Leaded Manganese Bronze) Sand Castings; Replaced by B 584
- B 148-93a** Specification for Aluminum-Bronze Sand Castings, **02.01**
- B 149** Discontinued 1973; Specification for Leaded Nickel-Brass (Leaded Nickel-Silver) and Leaded Nickel-Bronze (Leaded Nickel-Silver); Replaced by B 584
- B 150-95a** Specification for Aluminum Bronze Rod, Bar, and Shapes, **02.01**
- B 150M-95a** Specification for Aluminum Bronze Rod, Bar, and Shapes [Metric], **02.01**
- B 151-94** Specification for Copper-Nickel-Zinc Alloy (Nickel Silver) and Copper-Nickel Rod and Bar, **02.01**
- B 151M-94** Specification for Copper-Nickel-Zinc Alloy (Nickel Silver) and Copper-Nickel Rod and Bar [Metric], **02.01**
- B 152-97** Specification for Copper Sheet, Strip, Plate, and Rolled Bar, **02.01**
- B 152M-97** Specification for Copper Sheet, Strip, Plate, and Rolled Bar [Metric], **02.01**
- B 153-91(1996)^{e1}** Test Method for Expansion (Pin Test) of Copper and Copper-Alloy Pipe and Tubing, **02.01**
- B 154-95** Test Method for Mercurous Nitrate Test for Copper and Copper Alloys, **02.01**
- B 155** Redesignated F 155
- B 156** Discontinued 1948; Method of Testing Local Thickness of Electrodeposited Coatings; Replaced by F 219
- B 157** Discontinued 1955; Methods of Testing Wire for Supports Used in Electronic Devices and Lamps
- B 158** Discontinued 1942; Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members for Electrical Conductors; Replaced by B 172, B 173, B 174
- B 159-96a** Specification for Phosphor Bronze Wire [Metric], **02.01**
- B 159M-96a** Specification for Phosphor Bronze Wire [Metric], **02.01**
- B 160-93** Specification for Nickel Rod and Bar, **02.04**
- B 161-93** Specification for Nickel Seamless Pipe and Tube, **02.04**
- B 162-93a** Specification for Nickel Plate, Sheet, and Strip, **02.04**
- B 163-96** Specification for Seamless Nickel and Nickel Alloy Condenser and Heat-Exchanger Tubes, **02.04**
- B 164-93** Specification for Nickel-Copper Alloy Rod, Bar, and Wire, **02.04**
- B 165-93** Specification for Nickel-Copper Alloy (UNS N04400) Seamless Pipe and Tube, **02.04**
- B 166-95** Specification for Nickel-Chromium-Iron Alloys (UNS N06600, N06601, N06690, N06025, AND N06045) and Nickel-Chromium-Cobalt-Molybdenum Alloy (UNS N06617) Rod, Bar, and Wire, **02.04**
- B 167-94a** Specification for Nickel-Chromium-Iron Alloy (UNS N06600, N06601, N06690, N06025, and N06045) Seamless Pipe and Tube, **02.04**
- B 168-95a** Specification for Nickel-Chromium-Iron Alloys (UNS N06600, N06601, and N06690) and Nickel-Chromium-Cobalt-Molybdenum Alloy (UNS N06617) Plate, Sheet, and Strip, **02.04**
- B 169-95** Specification for Aluminum Bronze Sheet, Strip, and Rolled Bar, **02.01**
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- B 170-93** Specification for Oxygen-Free Electrolytic Copper—Refinery Shapes, **02.01**
- B 171-95** Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers, and Heat Exchangers, **02.01**
- B 171M-96** Specification for Copper-Alloy Plate and Sheet for Pressure Vessels, Condensers and Heat Exchangers [Metric], **02.01**
- B 172-95** Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors, **02.03**
- B 173-95** Specification for Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members, for Electrical Conductors, **02.03**
- B 174-95** Specification for Bunch-Stranded Copper Conductors for Electrical Conductors, **02.03**
- B 175** Discontinued 1955; Specification for Round Nickel Wire for Lamps and Electric Devices
- B 176-95** Specification for Copper-Alloy Die Castings, **02.01**
- B 177-93** Practice for Chromium Electroplating on Steel for Engineering Use, **02.05**
- B 178** Discontinued 1957; Specification for Aluminum-Alloy Sheet and Plate for Pressure Vessel Application; Replaced by B 209
- B 179-96** Specification for Aluminum Alloys in Ingot Form for Castings from All Casting Processes, **02.02**
- B 180** Redesignated F 180
- B 181** Discontinued 1970; Method of Testing Effect of Controlled Atmospheres Upon Alloys in Electric Furnaces
- B 182** Discontinued 1982; Method for Life Test of Electrical Contact Materials
- B 183-79(1990)** Practice for Preparation of Low-Carbon Steel for Electroplating, **02.05**
- B 184** Discontinued 1969; Specification for Aluminum and Aluminum-Alloy Metal Arc-Welding Electrodes
- B 185** Discontinued 1964; Method of Total Immersion Corrosion Test of Non-Ferrous Metals

- B 268 Redesignated F 268
 B 269 Redesignated F 269
 B 270 Redesignated F 270
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 B 273 Discontinued 1957; Specification for Aluminum and Aluminum-Alloy Bars, Rods, and Shapes for Pressure Vessel Applications; Replaced by B 211, B 221, B 308/B 308M
 B 274 Discontinued 1957; Specification for Aluminum and Aluminum-Alloy Pipe and Tube for Pressure Vessel Applications; Replaced by B 210
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 B 279-93 Test Method for Stiffness of Bare Soft Square and Rectangular Copper and Aluminum Wire for Magnet Wire Fabrication, 02.03
 B 280-95a Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service, 02.01
 B 281-88(1995) Practice for Preparation of Copper and Copper-Base Alloys for Electroplating and Conversion Coatings, 02.05
 B 282-83a(1995)*¹ Specification for Sintered Brass Structural Parts, 02.05
 B 283-96 Specification for Copper and Copper-Alloy Die Forgings (Hot-Pressed), 02.01
 B 284 Discontinued 1991; Specification for Rosin Flux-Core Solder
 B 285 Discontinued 1969; Specification for Aluminum and Aluminum-Alloy Welding Rods and Bare Electrodes
 B 286-95 Specification for Copper Conductors for Use in Hookup Wire for Electronic Equipment, 02.03
 B 287 Discontinued 1988; Method of Acetic Acid-Salt Spray (Fog) Testing
 B 288 Redesignated F 288
 B 289 Redesignated F 289
 B 290 Redesignated F 290
 B 291 Discontinued 1992; Specification for Copper-Zinc-Manganese Alloy (Manganese Brass) Sheet and Strip
 B 292 Discontinued 1973; Specification for Nickel-Tin Bronze Castings; Replaced by B 584
 B 293 Discontinued 1985; Method of Subsieve Analysis of Granular Metal Powders by Air Classification
 B 294-92 Method for Hardness Testing of Cemented Carbides, 02.05
 B 295 Discontinued 1969; Specification for Nickel and Nickel-Alloy Covered Welding Electrodes
 B 296-96 Practice for Temper Designations of Magnesium Alloys, Cast and Wrought, 02.02
 B 297 Discontinued 1969; Specification for Tungsten Arc-Welding Electrodes
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 B 299-94 Specification for Titanium Sponge, 02.04
 B 300 Redesignated F 300
 B 301-96 Specification for Free-Cutting Copper Rod and Bar [Metric], 02.01
 B 301M-96 Specification for Free-Cutting Copper Rod and Bar [Metric], 02.01
 B 302-97 Specification for Threadless Copper Pipe, 02.01
 B 303 Discontinued 1990; Specification for Copper-Infiltrated Sintered Carbon Steel Structural Parts; Replaced by B 783
 B 304 Discontinued 1969; Specification for Nickel and Nickel-Alloy Bare Welding Rods and Electrodes
 B 305 Discontinued 1986; Test Method for Maximum Loading Stress at Temperature of Thermostat Metals (Cantilever Beam Method)
 B 306-96 Specification for Copper Drainage Tube (DWV), 02.01
 B 307 Discontinued 1968; Specification for Aluminum-Alloy Drawn Seamless Coiled Tubes for Special Purpose Applications; Replaced by B 210
 B 308M Discontinued 1991; Replaced by B 308/B 308M
 B 308/B308M-96 Specification for Aluminum-Alloy 6061-T6 Standard Structural Profiles, 02.02
 B 309 Discontinued 1964; Specification for High Density Iron, Sintered Metal Powder Structural Parts; Combined with B 310
 B 310 Discontinued 1990; Specification for Sintered Carbon Steel Structural Parts; Replaced by B 783
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 B 336 Discontinued 1980; Specification for Nickel-Molybdenum-Chromium Alloy (UNS N10002) Rod
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- D 1286 Discontinued 1983; Method of Test for Effect of Mold Contamination on Permanence of Adhesives Preparations and Adhesive Bonds; Replaced by D 4300
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 D 1872 Discontinued 1991; Method of Testing Rubber Chemical—Free 2-Mercaptobenzothiazole in Benzothiazyl Disulfide; Replaced by D 5044
 D 1873 Discontinued 1991; Method of Testing Rubber Chemical—Total 2-Mercaptobenzothiazole in Benzothiazyl Disulfide; Replaced by D 1051
 D 1874-62(1993)*¹ Specification for Water- or Solvent-Soluble Liquid Adhesives for Automatic Machine Sealing of Top Flaps of Fiberboard Shipping Cases, 15.06
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 D 1877 Discontinued 1985; Method of Test for Permanence of Adhesive-Bonded Joints in Plywood Under Mold Conditions
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 D 1885 Discontinued 1962; Method of Test for Chloride Ion in High-Purity Industrial Water; Combined with D 512
 D 1886-94 Test Methods for Nickel in Water, 11.01
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 D 1893 Discontinued 1991; Test Method for Blocking of Plastic Film
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 D 1905 Discontinued 1978; Method of Test for Dimensional Changes in Laundering of Woven or Knitted Textiles
 D 1906 Discontinued 1968; Method of Test for Estimation of Effective Gage Length by Evaluation of Clamp Error in Single Fiber Testing
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 D 1920 Discontinued 1982; Recommended Practice for Determining Light Dosage in Carbon-Arc Light Aging Apparatus
 D 1921-96 Test Methods for Particle Size (Sieve Analysis) of Plastic Materials, 08.01
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 D 1923 Discontinued 1973; Method of Test for Tensile Properties of Thin Plastic Sheeting Using the Inclined Plane Testing Machine
 D 1924 Redesignated G 21
 D 1925 Discontinued 1995; Test Method for Yellowness Index of Plastics
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 D 1927 Discontinued 1994; Specification for Rigid Poly(Vinyl Chloride) Plastic Sheet
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 D 1930 Discontinued 1986; Specification for Kraft Dielectric Tissue, Capacitor Grade
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- D 1937-95** Test Method for Carbon Black, Pelleted—Mass Strength, **09.01**
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- D 1940** *Discontinued 1970; Method of Test for Porosity of Rigid Cellular Plastics*
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- D 1944** *Discontinued 1970; Method of Test for Porosity of Rigid Cellular Plastics*
- D 1945-96** Test Method for Analysis of Natural Gas by Gas Chromatography, **05.05**
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- D 1947** *Discontinued 1996; Test Method for Load-Carrying Capacity of Petroleum Oil and Synthetic Fluid Gear Lubricants*
- D 1948** *Discontinued 1969; Method of Test for Knock Characteristics of Motor Fuels Above 100 Octane Number by the Motor Method; Replaced by D 2700*
- D 1949** *Discontinued 1991; Test Method for Separation of Tetraethyllead and Tetramethyllead in Gasoline*
- D 1950-86(1995)*¹** Test Method for Acetone Tolerance of Heat-Bodied Drying Oils, **06.03**
- D 1951-86(1995)*¹** Test Method for Ash in Drying Oils and Fatty Acids, **06.03**
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- D 1961** *Discontinued 1975; Method of Test for Maleic Diene Value of Drying Oils; Replaced by D 1358*
- D 1962-85(1995)** Test Method for Saponification Value of Drying Oils, Fatty Acids, and Polymerized Fatty Acids, **06.03**
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- D 1975-95** Test Method for Environmental Stress Crack Resistance of Plastic Injection Molded Open Head Pails, **15.09**
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- D 1980-87(1991)*¹** Test Method for Acid Value of Fatty Acids and Polymerized Fatty Acids, **06.03**
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- D 1982-85(1995)** Test Method for Titer of Fatty Acids, **06.03**
- D 1983-90(1995)*¹** Test Method for Fatty Acid Composition by Gas-Liquid Chromatography of Methyl Esters, **06.03**
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- D 1999-96a** Guide for Selection of Specimens and Test Parameters for International Commerce, **08.01**
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- D 2004** *Discontinued 1984; Method of Test for Modulus of Rupture of Petroleum Wax*
- D 2005** *Discontinued 1986; Method of Test for Sealing Strength of Petroleum Wax*
- D 2006** *Discontinued 1976; Method of Test for Characteristic Groups in Rubber Extender and Processing Oils by the Precipitation Method*
- D 2007-93** Test Method for Characteristic Groups in Rubber Extender and Processing Oils and Other Petroleum-Derived Oils by the Clay-Gel Absorption Chromatographic Method, **05.01**
- D 2009** *Discontinued 1995; Practice for Collection by Filtration and Determination of Mass, Number, and Optical Sizing of Atmospheric Particulates*
- D 2010/D2010M-93** Test Methods for Evaluation of Total Sulfation Activity in the Atmosphere by the Lead Dioxide Technique, **11.03**
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- D 2012** *Discontinued 1979; Method for Continuous Measurement of Nitric Oxide, Nitrogen Dioxide, and Ozone in the Atmosphere*
- D 2013-86(1994)** Method of Preparing Coal Samples for Analysis, **05.05**
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- D 2016** *Discontinued 1989; Methods of Test for Moisture Content of Wood; Replaced by D 4442, D 4444*
- D 2017-81(1994)*¹** Test Method for Accelerated Laboratory Test of Natural Decay Resistance of Woods, **04.10**
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- D 2019-93** Test Method for Dirt in Paper and Paperboard, **15.09**
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- D 2021-65(1995)** Specification for Neutral Detergent, 40 Percent Alkylbenzene Sulfonate Type, **15.04**
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- D 2024-65(1992)** Test Method for Cloud Point of Nonionic Surfactants, **15.04**
- D 2025** *Redesignated F 37*
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- D 3113-92** Test Methods for Sodium Salts of EDTA in Water, **11.02**
D 3114 Discontinued 1986; Method of Test for D-C Electrical Conductivity of Hydrocarbon Fuels; Replaced by D 4308
- D 3115-95** Test Method for Explosive Reactivity of Lubricants with Aerospace Alloys Under High Shear, **05.02**
D 3116 Discontinued 1994; Test Method for Trace Amounts of Lead in Gasoline
- D 3117-96** Test Method for Wax Appearance Point of Distillate Fuels, **05.02**
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D 3119 Discontinued 1990; Test Method for Mist Spray Flammability of Hydraulic Fluids
- D 3120-96** Test Method for Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry, **05.02**
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- D 3142-84(1989)** Test Method for Specific Gravity or API Gravity of Liquid Asphalts by Hydrometer Method, **04.03**
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D 3146 Discontinued 1978; Specification for Oxidation-Inhibited Mineral Insulating Oil; Replaced by D 3487
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- D 3168-85(1994)** Practice for Qualitative Identification of Polymers in Emulsion Paints, **06.01**
- D 3169-89(1995)** Specification for Refined Sunflower Oil, **06.03**
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- D 3182-89(1994)** Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets, **09.01**
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- D 3185-88(1994)** Test Methods for Rubber—Evaluation of SBR (Styrene-Butadiene Rubber) Including Mixtures with Oil, **09.01**
- D 3186-95** Test Methods for Rubber—Evaluation of SBR (Styrene-Butadiene Rubber) Mixed with Carbon Black or Carbon Black and Oil, **09.01**
- D 3187-95** Test Methods for Rubber—Evaluation of NBR (Acrylonitrile-Butadiene Rubber), **09.01**
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- D 3191-96a** Test Methods for Carbon Black in SBR (Styrene-Butadiene Rubber)—Recipe and Evaluation Procedures, **09.01**
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D 3197 Discontinued 1986; Specification for Insert-Type Polyethylene Fusion Fittings for SDR 11.0 Polyethylene Pipe
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- D 3201-94** Test Method for Hygroscopic Properties of Fire-Retardant Wood and Wood-Base Products, **04.10**
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- D 4185-96 Practice for Measurement of Metals in Workplace Atmosphere by Flame Atomic Absorption Spectrophotometry, **11.03**
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- E 805-94** Practice for Identification of Instrumental Methods of Color or Color-Difference Measurement of Materials, **06.01**
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Each ASTM standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals; PS, provisional standards), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1998 have as their final number, 98. A letter following this number indicates more than one revision during that year, that is 98a indicates the second revision in 1998, 98b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1998). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

If a standard is written in inch-pound units (or other units) and acceptable metric units, the document is identified by a dual alphanumeric designation.

When reference is made to a standard, the *complete* designation should be given. Best practice is to state the *designation and title*.

The boldface number(s) following the title refer to the volume(s) of the *Annual Book of ASTM Standards* in which the standard appears.

This list includes only those standards which appear in the 1998 edition of each volume of the *Annual Book of ASTM Standards*. New and revised standards that were approved after the closing date for the volume are available as separate reprints and will be listed in next year's edition.

Each ASTM standard is available as a separate reprint from ASTM. Price and order information are available from ASTM Customer Service, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, 610-832-9585.

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B 88-96 Specification for Seamless Copper Water Tube,, **02.01**
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B 89 Discontinued 1946; Specification for Aluminum and Aluminum-Alloy Bars, Rods, and Wire; Replaced by B 211
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B 91-97 Specification for Magnesium-Alloy Forgings, **02.02**
B 92M Discontinued 1990; Replaced by B 92/B 92M
B 92/B92M-89(1994)*¹ Specification for Magnesium Ingot and Stick for Remelting, **02.02**
B 93M Discontinued 1990; Replaced by B 93/B 93M
B 93/B93M-94b Specification for Magnesium Alloys in Ingot Form for Sand Castings, Permanent Mold Castings, and Die Castings, **02.02**
B 94-94 Specification for Magnesium-Alloy Die Castings, **02.02**
B 95 Discontinued 1985; Method of Testing Linear Expansion of Metals; Replaced by E 228
B 96-93 Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes and Pressure Vessels, **02.01**
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B 97 Discontinued 1982; Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes; Combined with B 96
B 98M Discontinued 1998; Replaced by B 98/B 98M
B 98/B98M-97 Specification for Copper-Silicon Alloy Rod, Bar, and Shapes, **02.01**
B 99M Discontinued 1996; Replaced by B 99/B 99M
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- B 186 Discontinued 1946; Specification for Special Quality Zinc-Base Alloy Die Castings
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- B 190 Discontinued 1961; Specification for Chromium-Nickel-Iron Alloy Castings (25-12 Class) for High-Temperature Service; Replaced by A 447
- B 191 Discontinued 1956; Method of Testing Equivalent Yield Stress of Thermostat Metals; Replaced by B 305
- B 192 Discontinued 1964; Method of Alternate Immersion Corrosion Testing of Non-Ferrous Metals
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- B 195 Discontinued 1952; Specification for Copper-Beryllium Alloy Plate, Sheet, Strip, and Rolled Bar; Combined with B 194
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- B 198 Discontinued 1973; Specification for Silicon Bronze and Silicon Brass Sand Castings; Replaced by B 584
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- B 203 Discontinued 1955; Method of Testing Strength of Welded Joints of Lead Wires for Electronic Devices and Lamps
- B 204 Redesignated F 204
- B 205 Redesignated F 205
- B 205M Discontinued 1997; Replaced by B 206, B 206M
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- B 217 Discontinued 1965; Specification for Magnesium-Base Alloy Extruded Tubes; Combined with B 107
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- E 3-95 Methods of Preparation of Metallographic Specimens, 03.01
- E 4-98 Practices for Force Verification of Testing Machines, 03.01
- E 5 Discontinued 1937; Methods of Preparation of Metallographic Specimens; Replaced by E 3
- E 6-98 Terminology Relating to Methods of Mechanical Testing, 03.01
- E 7-97a Terminology Relating to Metallography, 03.01
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- E 9-89a(1995) Test Methods of Compression Testing of Metallic Materials at Room Temperature, 03.01
- E 10-96 Test Method for Brinell Hardness of Metallic Materials, 03.01
- E 11-95 Specification for Wire-Cloth Sieves for Testing Purposes, 14.02
- E 12 Discontinued 1996; Terminology Relating to Density and Specific Gravity of Solids, Liquids, and Gases; Replaced by E 1547
- E 13 Discontinued 1967; Definitions of Terms Relating to Screen (Sieve)
- E 14 Discontinued 1983; Recommended Practice for Thermal Analysis of Metals and Alloys
- E 15 Discontinued 1949; Methods of Radiographic Testing of Metal Castings
- E 16 Discontinued 1978; Method of Free Bend Test for Ductility of Welds
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- E 20 Discontinued 1994; Practice for Particle Size Analysis of Particulate Substances in the Range of 0.2 to 75 Micrometres by Optical Microscopy
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- E 26 Discontinued 1954; Method of Quantitative Spectrochemical Analysis of Zinc Base Alloy and High Grade Zinc by the Solution-d-c Arc Technique
- E 27 Discontinued 1986; Method for Spectrographic Analysis of Zinc and Zinc Alloys by the Solution-Residue Technique
- E 28-97 Test Method for Softening Point by Ring-and-Ball Apparatus, 06.03
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- E 30 Discontinued 1995; Test Methods for Chemical Analysis of Steel, Cast Iron, Open-Hearth Iron, and Wrought Iron
- E 31 Discontinued 1995; Methods for Chemical Analysis of Ferroalloys
- E 32-86(1996)^{e1} Practices for Sampling Ferroalloys and Steel Additives for Determination of Chemical Composition, 03.05
- E 33 Discontinued 1959; Hardness Conversion Table for Cartridge Brass (Relationship Between Diamond Pyramid Hardness, Rockwell Hardness, and Brinell Hardness); Replaced by E 140
- E 34-94(1998) Test Methods for Chemical Analysis of Aluminum and Aluminum-Base Alloys, 03.05
- E 35-88(1997) Test Methods for Chemical Analysis of Magnesium and Magnesium Alloys, 03.05
- E 36 Discontinued 1980; Methods for Chemical Analysis of Brasses; Replaced by E 478
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- E 40 Discontinued 1993; Test Method for Chemical Analysis of Slab Zinc (Spelter); Replaced by E 536
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- E 52 Discontinued 1969; Industrial Radiographic Terminology for Use in Radiographic Inspection of Castings and Weldments
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- E 64 Discontinued 1957; Photometric Methods for Determination of Iron in Slab Zinc (Spelter); Combined with E 40
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Each ASTM standard has a unique serial designation. It is comprised of a capital letter indicating general classification (A, ferrous metals; B, nonferrous metals; C, cementitious, ceramic, concrete, and masonry materials; D, miscellaneous materials; E, miscellaneous subjects; F, materials for specific applications; G, corrosion, deterioration, and degradation of materials; ES, emergency standards; P, proposals; PS, provisional standards), a serial number (one to four digits), a dash, and the year of issue.

In each serial designation, the number following the dash indicates the year of original adoption as standard or, in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 1999 have as their final number, 99. A letter following this number indicates more than one revision during that year, that is 99a indicates the second revision in 1999, 99b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (1999). A superscript epsilon indicates an editorial change since the last revision or reapproval; $\epsilon 1$ for the first change, $\epsilon 2$ for the second, etc.

If a standard is written in acceptable metric units and has a companion standard written in inch-pound units (or other units), the metric standard is identified by a letter M after the serial number; this standard contains "hard metric" units.

If a standard is written in inch-pound units (or other units) and acceptable metric units, the document is identified by a dual alphanumeric designation.

When reference is made to a standard, the *complete* designation should be given. Best practice is to state the *designation and title*.

The boldface number(s) following the title refer to the volume(s) of the *Annual Book of ASTM Standards* in which the standard appears.

This list includes only those standards which appear in the 1999 edition of each volume of the *Annual Book of ASTM Standards*. New and revised standards that were approved after the closing date for the volume are available as separate reprints and will be listed in next year's edition.

Each ASTM standard is available as a separate reprint from ASTM. Price and order information are available from ASTM Customer Service, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, 610-832-9585.

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- C 388** *Discontinued 1974; Method of Test for Yield of Magnesium Oxychloride Cement (Field Test)*
- C 389** *Discontinued 1974; Method of Test for Yield of Magnesium Oxychloride Cement (Laboratory Test)*
- C 390-79(1995)*¹** Criteria for Sampling and Acceptance of Preformed Thermal Insulation Lots, **04.06**
- C 391** *Discontinued 1977; Specification for Amosite Asbestos Thermal Insulation for Pipes*
- C 392** *Discontinued 1968; Specification for Mineral Fiber Block or Board Thermal Insulation for Elevated Temperatures; Replaced by C 612*
- C 393-94** Test Method for Flexural Properties of Flat Sandwich Constructions, **15.03**
- C 394-94** Test Method for Shear Fatigue of Sandwich Core Materials, **15.03**
- C 395-95** Specification for Chemical-Resistant Resin Mortars, **04.05**
- C 396** *Discontinued 1983; Method of Test for Compressive Strength of Chemically Setting Silicate and Silica Chemical-Resistant Mortars; Replaced by C 579*
- C 397-94** Practice for Use of Chemically Setting Chemical-Resistant Silicate and Silica Mortars, **04.05**
- C 398-98** Practice for Use of Hydraulic Cement Mortars in Chemical-Resistant Masonry, **04.05**

- D 308 Discontinued 1940; Method of Test for Oil Content of Petroleum Waxes; Replaced by D 721
- D 309 Discontinued 1943; Specification for Crushed Stone, Crushed Slag, and Gravel for Bituminous Concrete Base and Surface Courses of Pavements; Replaced by D 692
- D 310 Discontinued 1988; Test Method for Size of Anthracite; Replaced by D 4749
- D 311 Discontinued 1988; Method for Sieve Analysis of Crushed Bituminous Coal; Replaced by D 4749
- D 312-95a Specification for Asphalt Used in Roofing, 04.04
- D 313 Discontinued 1982; Method of Test for Coarse Particles in Mixtures of Asphalt and Mineral Matter
- D 314 Discontinued 1970; Method of Test for Hardness of Rubber; Replaced by D 1415
- D 315-95 Specification for Woven Asbestos Tape, 04.05
- D 316 Discontinued 1938; Methods of Test for Chafer Tire Fabrics Other Than Cord Fabrics
- D 317 Discontinued 1956; Specification for Oil Putty for Glazing
- D 318 Discontinued 1976; Specification for Amyl Acetate (Synthetic) (85 to 88% grade)
- D 319-95 Specification for Amyl Alcohol (Synthetic), 06.04
- D 320 Discontinued 1953; Specification for Butyl Propionate (90 to 93% grade)
- D 321 Discontinued 1953; Specification for Ethyl Lactate (Synthetic)
- D 322-97 Test Method for Gasoline Diluent in Used Gasoline Engine Oils by Distillation, 05.01
- D 323-94 Test Method for Vapor Pressure of Petroleum Products (Reid Method), 05.01
- D 324 Discontinued 1964; Definitions of Terms Relating to Timber Preservatives
- D 325 Discontinued 1945; Method of Test for Comparing Thermal Conductivities of Solid Electrical Insulating Materials
- D 326 Discontinued 1935; Method of Compression Testing of Natural Building Stone
- D 327 Redesignated C 99
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- D 329-95 Specification for Acetone, 06.04
- D 330-93(1997) Specification for 2-Butoxyethanol, 06.04
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- D 332-87(1997)^{e1} Test Method for Relative Tinting Strength of White Pigments by Visual Observation, 06.01
- D 333-96 Test Methods for Clear and Pigmented Lacquers, 06.02
- D 334 Discontinued 1967; Methods of Test for Cotton Goods for Rubber and Pyroxylin Coating
- D 335 Discontinued 1989; Specification for Cotton Tapes Woven for Electrical Purposes
- D 336 Discontinued 1938; Methods of Test for Tire Fabrics Other Than Cord Fabrics
- D 337 Redesignated E 337
- D 338 Discontinued 1935; Method of Test for Modulus of Elasticity of Natural Building Stone
- D 339 Discontinued 1935; Method of Shear Testing of Natural Building Stone
- D 340 Discontinued 1935; Definitions of Terms Relating to Natural Building Stone
- D 341-93(1998) Viscosity-Temperature Charts for Liquid Petroleum Products, 05.01
- D 342 Discontinued 1936; Specification for Acetate Ester of Ethylene Glycol Monoethyl Ether (90 to 91% Grade)
- D 343 Discontinued 1982; Specification for 2-Ethoxyethyl Acetate (95% Grade)
- D 344-97 Test Method for Relative Hiding Power of Paints by the Visual Evaluation of Brushouts, 06.01
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- D 347-97 Tables for Volume and Specific Gravity Correction for Creosote, Creosote-Coal Tar Solutions, and Coal Tar, 04.10
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- D 349-92(1997) Test Methods for Laminated Round Rods Used for Electrical Insulation, 10.01
- D 350-96 Test Methods for Flexible Treated Sleeving Used for Electrical Insulation, 10.01
- D 351-97 Classification for Natural Muscovite Block Mica and Thins Based on Visual Quality, 10.01
- D 352-97 Test Methods for Pasted Mica Used in Electrical Insulation, 10.01
- D 353 Discontinued 1995; Specification for Natural Rubber Insulation for Wire and Cable, 60°C Operation
- D 354 Discontinued 1967; Methods of Testing Tolerances for Tubular Sleeving and Braids
- D 355 Discontinued 1936; Method of Sampling Natural Building Stone and Sample for Testing
- D 356 Discontinued 1935; Method of Tension Testing of Natural Building Stone and Sample for Testing
- D 357 Discontinued 1970; Method of Test for Knock Characteristics of Motor Fuels Below 100 Octane Number by the Motor Method; Replaced by D 2700
- D 358-98 Specification for Wood to Be Used as Panels in Weathering Tests of Coatings, 06.02
- D 359 Discontinued 1940; Specification for Shellac Varnish; Replaced by D 360
- D 360-89(1996)^{e1} Specification for Shellac Varnishes, 06.03
- D 361 Discontinued 1968; Specification for Industrial 90 Benzene
- D 362 Discontinued 1991; Specification for Industrial Grade Toluene
- D 363-90(1995) Specification for Tricresyl Phosphate, 06.04
- D 364 Discontinued 1982; Specification for Industrial Grade Xylene
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- D 367-94 Test Method for Xylene-Insoluble Matter in Creosote, 04.10
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- D 377 Discontinued 1976; Methods of Test for Small Amounts of Copper and Manganese in Textiles
- D 378-91 Test Methods for Rubber Belting, Flat Type, 09.02
- D 379 Discontinued 1938; Methods of Test for rubber hose; Replaced by D 380
- D 380-94 Methods of Testing Rubber Hose, 09.02
- D 381-94^{e1} Test Method for Existent Gum in Fuels by Jet Evaporation, 05.01
- D 382 Discontinued 1940; Specification for Titanium Barium Pigment; Replaced by D 476
- D 383 Discontinued 1940; Specification for Titanium Calcium Pigment; Replaced by D 476
- D 384 Discontinued 1939; Specification for Titanium Dioxide; Replaced by D 476
- D 385 Discontinued 1940; Specification for Zinc Sulfate Pigment; Replaced by D 477
- D 386 Discontinued 1940; Specification for Zinc Oxide; Replaced by D 477
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- D 392 Discontinued 1963; Methods of Testing Molding Powders Used in Manufacturing Molded Electrical Insulators
- D 393 Discontinued 1938; Specification for Insulated Wire and Cable: Class A, 30% Heavy Rubber Compound
- D 394 Discontinued 1970; Method of Test for Abrasion Resistance of Rubber Compounds
- D 395-98 Test Methods for Rubber Property—Compression Set, 09.01
- D 396-98 Specification for Fuel Oils, 05.01
- D 397 Discontinued 1951; Specification for Emulsified Asphalt; Replaced by D 977
- D 398 Discontinued 1950; Specification for Emulsified Asphalt; Replaced by D 977
- D 399 Discontinued 1950; Specification for Emulsified Asphalt; Replaced by D 977
- D 400 Discontinued 1937; Specification for Emulsified Asphalt (Heavy Premix-Winter Grade)
- D 401 Discontinued 1949; Specification for Emulsified Asphalt; Replaced by D 977
- D 402-97 Test Method for Distillation of Cut-Back Asphaltic (Bituminous) Products, 04.03
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- D 404 Discontinued 1953; Methods of Testing and Tolerances for Yarns Containing Wool; Replaced by D 1285
- D 405 Discontinued 1982; Specification for Blue Lead; Basic Sulfate
- D 406 Discontinued 1961; Method of Test for Relative Dry Hiding Power of White Pigments in Linseed Oil Vehicle
- D 407 Discontinued 1977; Definitions of Terms Relating to Gross Calorific Value and Net Calorific Value of Solid and Liquid Fuels; Replaced by D 121
- D 408 Discontinued 1951; Method of Test for Grindability of Coal by the Ball-Mill Method
- D 409-97 Test Method for Grindability of Coal by the Hardgrove-Machine Method, 05.05
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- D 630 Discontinued 1981; Specification for Olive Oil Chip Soap (Type A, Straight; Type B, Blended)
- D 631 Discontinued 1950; Specification for Emulsified Asphalt; Replaced by D 977
- D 632-94 Specification for Sodium Chloride, 04.03
- D 633-97 Volume Correction Table for Road Tar, 04.03
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- D 635-98 Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position, 08.01
- D 636 Discontinued 1960; Method of Test for Diffusion of Light by Plastics
- D 637 Discontinued 1995; Test Method for Surface Irregularities of Flat Transparent Plastic Sheets
- D 638-98 Test Method for Tensile Properties of Plastics, 08.01
- D 639 Discontinued 1989; Methods of Testing Battery Containers Made from Hard Rubber or Equivalent Materials
- D 640 Discontinued 1952; Specification and Methods of Test for Concentrated Ammonia Preserved Creamed and Centrifuged Natural Rubber Latex; Replaced by D 1076
- D 641 Discontinued 1978; Method of Test for Conditioning Paperboard, Fiberboard, and Paperboard Containers for Testing; Replaced by D 685
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- D 648-98c Test Method for Deflection Temperature of Plastics Under Flexural Load, 08.01
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- D 650 Discontinued 1948; Tentative Method of Test for Flexural Strength of Electrical Insulating Materials; Replaced by D 790
- D 651 Discontinued 1991; Test Method for Tensile Strength of Molded Electrical Insulating Materials
- D 652 Discontinued 1957; Method of Test for Measuring Mica Stampings Used in Electronic Devices and Incandescent Lamps
- D 653-97 Terminology Relating to Soil, Rock, and Contained Fluids, 04.08
- D 654 Discontinued 1958; Specification for Coal-Tar Pitch for Steep Built-Up Roofs
- D 655 Discontinued 1971; Specification for Asphalt-Saturated and Coated Asbestos Felts for Use in Constructing Built-Up Roofs
- D 656-87(1993) Specification for Pure Toluidine Red Toner, 06.03
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- D 658 Discontinued 1996; Test Method for Abrasion Resistance of Organic Coatings by Air Blast Abrasive
- D 659 Discontinued 1990; Method of Evaluating Degree of Chalking of Exterior Paints; Replaced by D 4214
- D 660-93 Test Method for Evaluating Degree of Checking of Exterior Paints, 06.01
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- D 672 Discontinued 1951; Method of Test for Luminous Reflectance, Transmittance, and Color of Materials
- D 673 Discontinued 1998; Test Method for Mar Resistance of Plastics
- D 674 Discontinued 1976; Recommended Practices for Long-Time Creep or Stress Relaxation of Plastics Under Tension or Compression at Different Temperatures; Replaced by D 2990
- D 675 Discontinued 1961; Nomenclature of Descriptive Terms Pertaining to Plastics; Combined with D 883
- D 676 Discontinued 1965; Method of Test for Indentation of Rubber by Means of a Durometer; Replaced by D 2240
- D 677 Discontinued 1958; Specification for Woven Asbestos Cloth; Replaced by D 1571
- D 678 Discontinued 1947; Tentative Specifications for Finished, All-Cotton, Upholstery Tapestries

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- D 679 Discontinued 1966; Methods of Testing and Tolerances for Certain Fine Staple Cotton Gray Goods
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- D 681-87(1993)*¹ Specification for Jute Rove and Plied Yarn for Electrical and Packing Purposes, 07.01
- D 682 Discontinued 1958; Method of Test for Colorfastness of Dyed Acetate to Atmospheric Fumes
- D 683 Discontinued 1961; Methods of Test for Identification of Finishes on Textiles
- D 684 Discontinued 1958; Methods of Test for Resistance of Textile Materials to Microorganisms
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- D 695-96 Test Method for Compressive Properties of Rigid Plastics, 08.01
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- D 698-91(1998) Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)), 04.08
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- D 700 Discontinued 1991; Specification for Phenolic Molding Compounds
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- D 702 Discontinued 1990; Specification for Cast Methacrylate Plastic Sheets
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- D 941 *Discontinued 1993; Test Method for Density and Relative Density (Specific Gravity) of Liquids by Lipkin Bicapillary Pycnometer*
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- D 981 *Discontinued 1974; Methods of Testing Analytical Filter Papers*
- D 982 *Discontinued 1981; Method of Test for Organic Nitrogen in Paper and Paperboard*
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- D 987 *Discontinued 1969; Method of Test for Stretch of Paper and Paper Products Under Tension*
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- D 989 *Discontinued 1967; Method of Test for Detection of Free Sulfur in Electrical Insulating Oils; Replaced by D 1275*
- D 990 *Discontinued 1974; Recommended Practice for Interlaboratory Testing of Textile Materials; Replaced by D 2904*
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- D 4351 *Discontinued 1992; Test Method for Measuring the Thermal Conductivity of Plastics by the Evaporation-Calorimetric Method*
- D 4352-90(1997)*¹ Test Method for Determination of Magnetic Material Impurities in Electrical Grade Magnesium Oxide, **10.02**
- D 4353 *Discontinued 1995; Test Method for Basic Stability of a Mechanical Pump Dispenser and Product*
- D 4354-96 Practice for Sampling of Geosynthetics for Testing, **04.09**
- D 4355-92 Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus), **04.09**
- D 4356-84(1996) Practice for Establishing Consistent Test Method Tolerances, **14.02**
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- D 4924-89(1994) Classification for Petroleum Waxes for Use in Rubber Compounding, 09.01
- D 4925 *Discontinued 1997; Test Method for Flexibility and Adhesion of Finish on Leather; Replaced by D 6182*
- D 4926-89(1994)*¹ Test Method for Gamma Alumina Content in Catalysts Containing Silica and Alumina by X-Ray Powder Diffraction, 05.04
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- D 4928-96 Test Method for Water in Crude Oils by Coulometric Karl Fischer Titration, 05.03
- D 4929-94 Test Methods for Determination of Organic Chloride Content in Crude Oil, 05.03
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- D 4934-94(1998)*¹ Test Method for Rubber Compounding Materials: 2-Benzothiazyl Sulfenamide Accelerators—Insolubles, 09.01
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- D 4937-96*¹ Test Method for p-Phenylenediamine Antidegradants Purity by Gas Chromatography, 09.01
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- D 4951-96 Test Method for Determination of Additive Elements in Lubricating Oils by Inductively Coupled Plasma Atomic Emission Spectrometry, 05.03
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- D 4962-95*¹ Practice for NaI (TI) Gamma-Ray Spectrometry of Water, 11.02
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- D 4972-95a Test Method for pH of Soils, 04.09
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- D 4974-93 Test Method for Thermal Shrinkage of Yarn and Cord Using the Testrite Thermal Shrinkage Oven, 07.02
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- D 4991-94 Test Method for Leakage Testing of Empty Rigid Containers by Vacuum Method, 15.09
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- D 5264-98 Practice for Abrasion Resistance of Printed Materials by the Sutherland Rub Tester, 15.09
- D 5265-92(1998)¹ Test Method for Bridge Impact Testing, 15.09
- D 5266-97 Practice for Estimating the Percentage of Wood Failure in Adhesive Bonded Joints, 15.06
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- D 5269-96 Test Method for Determining Transmissivity of Nonleaky Confined Aquifers by the Theis Recovery Method, 04.09
- D 5270-96 Test Method for Determining Transmissivity and Storage Coefficient of Bounded, Nonleaky, Confined Aquifers, 04.09
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- D 5276-98 Test Method for Drop Test of Loaded Containers by Free Fall, 15.09
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- D 5278-98 Test Method for Elongation of Narrow Elastic Fabrics (Static-Load Testing), 07.02
- D 5279-95 Test Method for Measuring the Dynamic Mechanical Properties of Plastics in Torsion, 08.03
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- D 5287-97 Practice for Automatic Sampling of Gaseous Fuels, 05.05
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- D 5839-96 Test Method for Trace Element Analysis of Hazardous Waste Fuel by Energy-Dispersive X-Ray Fluorescence Spectrometry, 11.04
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- D 5847-99 Practice for Writing Quality Control Specifications for Standard Test Methods for Water Analysis, 11.02
- D 5848-98 Test Method for Mass Per Unit Area of Pile Yarn Floor Coverings, 07.02
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- D 5857-96 Specification for Propylene Plastic Injection and Extrusion Materials Using ISO Protocol and Methodology, 08.03
- D 5858-96^{e1} Guide for Calculating In Situ Equivalent Elastic Moduli of Pavement Materials Using Layered Elastic Theory, 04.09
- D 5860-95 Test Method for Evaluation of the Effect of Water Repellent Treatments on Freeze-Thaw Resistance of Hydraulic Cement Mortar Specimens, 06.02
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- D 5865-98a Test Method for Gross Calorific Value of Coal and Coke, 05.05
- D 5866-95 Test Method for Neps in Cotton Fibers (AFIS-N Instrument), 07.02
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- D 5868-95 Test Method for Lap Shear Adhesion Test for Fiber Reinforced Plastic (FRP) Bonding, 15.06
- D 5869-95 Practice for Dark Oven Heat Exposure of Bituminous Materials, 04.04
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- D 5873-95 Test Method for Determination of Rock Hardness by the Rebound Hammer Method, 04.09
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- D 5879-95^{e1} Practice for Surface Site Characterization for On-Site Septic Systems, 04.09
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- D 5883-96^{e1} Guide for Use of Rotary Kiln Produced Expanded Shale, Clay, or Slate As a Mineral Amendment in Topsoil Used for Landscaping and Related Purposes, 04.09
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