ASTM Standards on Reserves in the Library (MSE)

ASTM volumes which contain the standards listed in this document have been placed on Reserves in the Library. A student can check out each volume for 2 hours, use is limited to in the library.

Standards were selected by Dr. Harold Ackler and Dr. Megan Frary, Materials Science and Engineering.

Potential classes that may need these standards (but not limited to):
  - MSE 245L
  - MSE 312
  - MSE 380
  - MSE 381
  - MSE 404L
  - MSE 482
  - MSE 483

This list provides a quick referral – there are two lists: 1) by standard number (p. 2-4) and 2) by volume in reserves (p. 5-8).

**How to use this handout:** If you have been asked to obtain an ASTM standard, look at list 1 (by standard number). You will see a volume number in bold. Ask at the Reserves desk in the Library (the counter to the left as you walk in to the Library) for the needed volume. You will need to have your Boise State Bronco Card with you in order to check the volume out.

If you are looking for an ASTM standard that is not on this list, ask for assistance at the Library’s reference desk.

**Further information for Library staff:** If you have an ASTM standard number, you can find the Volume it is in by going to the ASTM website, [http://www.astm.org](http://www.astm.org). Search for the standard number and click on the title of the standard to see the “Book of Standards Volume” information. The Library has the complete set of the 2017 Annual Book of ASTM Standards volumes. Check the Library catalog to see where the needed volume is located. Some volumes are in Reserves and some in the Reference collection.
1) List by ASTM standard number


C373-16e1 – Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products, Ceramic Tiles, and Glass Tiles  Volume 15.02


C1161-13 – Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature  Volume 15.01


C1239-13 – Standard Practice for Reporting Uniaxial Strength Data and Estimating Weibull Distribution Parameters for Advanced Ceramics  Volume 15.01


D638-14 – Standard Test Method for Tensile Properties of Plastics  Volume 8.01


D696-16 – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between −30°C and 30°C with a Vitreous Silica Dilatometer  Volume 8.01

D1623-09 – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics  Volume 8.01

D3359-09e2 – Standard Test Methods for Measuring Adhesion by Tape Test  Volume 6.01

D3363-05(2011)e2 – Standard Test Method for Film Hardness by Pencil Test  Volume 6.01

D4440-15 – Standard Test Method for Plastics: Dynamic Mechanical Properties Melt Rheology  Volume 8.02

D7337-12 – Standard Test Method for Tensile Creep Rupture of Fiber Reinforced Polymer Matrix Composite Bars  **Volume 15.03**

D8101-17 – Standard Test Method for Measuring the Penetration Resistance of Composite Materials to Impact by a Blunt Projectile  **Volume 15.03**

E8/E8M-16a – Standard Test Methods for Tension Testing of Metallic Materials  **Volume 3.01**

E9-09 – Standard Test Methods of Compression Testing of Metallic Materials at Room Temperature  **Volume 3.01**

E10-17 – Standard Test Method for Brinell Hardness of Metallic Materials  **Volume 3.01**

E18-16 – Standard Test Methods for Rockwell Hardness of Metallic Materials  **Volume 3.01**


E112-13 – Standard Test Methods for Determining Average Grain Size  **Volume 3.01**


E228-17 – Standard Test Method for Linear Thermal Expansion of Solid Materials With a Push-Rod Dilatometer  **Volume 14.05**

E289-17 – Standard Test Method for Linear Thermal Expansion of Rigid Solids with Interferometry  **Volume 14.05**

E290-14 – Standard Test Methods for Bend Testing of Material for Ductility  **Volume 3.01**

E399-12e3 – Standard Test Method for Linear-Elastic Plane-Strain Fracture Toughness KIc of Metallic Materials  Volume 3.01

E606/E606M-12 – Standard Test Method for Strain-Controlled Fatigue Testing  Volume 3.01


E831-14 – Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis  Volume 14.05


E1245-03(2016) – Standard Practice for Determining the Inclusion or Second-Phase Constituent Content of Metals by Automatic Image Analysis  Volume 3.01.


E2368-10 – Standard Practice for Strain Controlled Thermomechanical Fatigue Testing  Volume 3.01

E2714-13 – Standard Test Method for Creep-Fatigue Testing  Volume 3.01

These ASTM volumes have been placed on reserves for use in the library, 2-hour loan. They contain standards requested by Dr. Harold Ackler and Dr. Megan Frary, Materials Science and Engineering, for students in several labs & courses.

Potential classes (but not limited to):

| MSE 245L | MSE 404L |
| MSE 312 | MSE 482 |
| MSE 380 | MSE 483 |
| MSE 381 |

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**Further information for Library staff:** If you have an ASTM standard number, you can find the Volume it is in by using the print Index volume--the Alphanumerical index (ref TA 401 .A653) OR by going to the ASTM website and searching for the standard number- [http://www.astm.org](http://www.astm.org) - click on the title to see the “Book of Standards Volume” information. *The Library has the complete set of the 2017 Annual Book of ASTM Standards volumes. Check the Library catalog to see where the needed volume is located. Some volumes are in Reserves and some in the Reference collection.*

**2) LIST BY ASTM Volume in Reserves**

**Volume 3.01 Reserves: Ackler Libres 100; Frary, MSE 312**

E8/E8M-16a – Standard Test Methods for Tension Testing of Metallic Materials Volume 3.01

E9-09 – Standard Test Methods of Compression Testing of Metallic Materials at Room Temperature Volume 3.01

E10-17 – Standard Test Method for Brinell Hardness of Metallic Materials Volume 3.01

E18-16 – Standard Test Methods for Rockwell Hardness of Metallic Materials Volume 3.01


E112-13 – Standard Test Methods for Determining Average Grain Size  Volume 3.01


E228-17 – Standard Test Method for Linear Thermal Expansion of Solid Materials With a Push-Rod Dilatometer  Volume 14.05

E289-17 – Standard Test Method for Linear Thermal Expansion of Rigid Solids with Interferometry  Volume 14.05

E290-14 – Standard Test Methods for Bend Testing of Material for Ductility  Volume 3.01


E399-12e3 – Standard Test Method for Linear-Elastic Plane-Strain Fracture Toughness KIc of Metallic Materials  Volume 3.01

E606/E606M-12 – Standard Test Method for Strain-Controlled Fatigue Testing  Volume 3.01


E1245-03(2016) – Standard Practice for Determining the Inclusion or Second-Phase Constituent Content of Metals by Automatic Image Analysis  Volume 3.01.


E2368-10 – Standard Practice for Strain Controlled Thermomechanical Fatigue Testing  Volume 3.01

E2714-13 – Standard Test Method for Creep-Fatigue Testing  Volume 3.01

Volume 3.03  Reserves: Ackler Libres 100

Volume 4.06  Reserves: Ackler Libres 100


Volume 6.01  Reserves: Ackler Libres 100
D3359-17 – Standard Test Methods for Measuring Adhesion by Tape Test  Volume 6.01

D3363-05(2011)e2 – Standard Test Method for Film Hardness by Pencil Test  Volume 6.01

Volume 8.01  Reserves: Ackler Libres 100; Frary, MSE 312
D638-14 – Standard Test Method for Tensile Properties of Plastics  Volume 8.01


D696-08e1 – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between −30°C and 30°C with a Vitreous Silica Dilatometer  Volume 8.01

D1623-09 – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics  Volume 8.01

Volume 8.02  Reserves: Frary, MSE 312
D4440-15 – Standard Test Method for Plastics: Dynamic Mechanical Properties Melt Rheology  Volume 8.02

Volume 14.05 Reserves: Ackler Libres 100
E228-17 – Standard Test Method for Linear Thermal Expansion of Solid Materials With a Push-Rod Dilatometer  Volume 14.05

E289-17 – Standard Test Method for Linear Thermal Expansion of Rigid Solids with Interferometry  Volume 14.05

E831-14 – Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis  Volume 14.05

**Volume 15.01 Reserves: Ackler Libres 100**
C1161-13 – Standard Test Method for Flexural Strength of Advanced Ceramics at Ambient Temperature  Volume 15.01


C1239-13 – Standard Practice for Reporting Uniaxial Strength Data and Estimating Weibull Distribution Parameters for Advanced Ceramics  Volume 15.01

C1259-14 – Standard Test Method for Dynamic Young’s Modulus, Shear Modulus, and Poisson’s Ratio for Advanced Ceramics by Impulse Excitation of Vibration  Volume 15.01


**Volume 15.02 Reserves: Ackler Libres 100**
C373-16e1 – Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products, Ceramic Tiles, and Glass Tiles  Volume 15.02

**Volume 15.03 Reserves: Frary, MSE 312**
D7205-06 (2016) – Standard Test Method for Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars  Volume 15.03 (will be published in October, will add to Reserves when received)

D7337-12 – Standard Test Method for Tensile Creep Rupture of Fiber Reinforced Polymer Matrix Composite Bars  Volume 15.03 (will be published in October, will add to Reserves when received)

D8101-17 – Standard Test Method for Measuring the Penetration Resistance of Composite Materials to Impact by a Blunt Projectile  Volume 15.03 (will be published in October, will add to Reserves when received)