



ASTM Terminology

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Education

1991 - 1996  **Shiraz University**
B.Sc., Materials Engineering - Metal Forming

1998 - 2001  **Shiraz University**
M.Sc., Materials Engineering - Characterization and Selection of Materials

Career Timeline

 **Sistan & Balouchestan University**
Laboratory Expert and Instructor, 1996 - 1998

 **Niroy Research Institute**
Researcher, Test Engineer and Laboratory Manager, 2002 - 2005

 **Moshanir Consultants**
Senior Materials and Welding Engineer, 2005 - 2016

 **Nargan Co.**
Senior Materials and Corrosion Engineer, 2016 – Present



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Terminology Standard is a Standard that is concerned with terms, usually accompanied by their definitions, and sometimes by explanatory notes, illustrations, examples, etc.

ISO/IEC Guide 2, ISO/IEC 17000, IEEE & ASTM Terminology standards are examples.



The following ASTM Terminology Standards allows the reader to reference terminology developed by various ASTM Committees.

The definitions contained in this compilation also facilitates the comparison of definitions created by technical subject experts in many disciplines.



This file is presented based on subject classification of ASTM standards as follows:

- A ferrous metals
- B nonferrous metals
- C cementations, ceramic, concrete, and masonry materials
- D miscellaneous materials
- E miscellaneous subjects
- F end use materials and products
- G corrosion, deterioration, and degradation of materials

A

Ferrous Metals

- A 340 Symbols and Definitions Relating to Magnetic Testing
- A 644 Iron Castings
- A 902 Metallic Coated Steel Products
- A 941 Steel, Stainless Steel, Related Alloys, and Ferroalloys
- A 751 Chemical Analysis of Steel Products
- A 919 Heat Treatment of Metals (Withdrawn 1999)

B

Nonferrous Metals

- B 243 Powder Metallurgy
- B 354 Uninsulated Metallic Electrical Conductors
- B 374 Electroplating
- B 542 Electrical Contacts and Their Use
- B 846 Copper and Copper Alloys
- B 881 Aluminum- and Magnesium-Alloy Products
- B 899 Non-ferrous Metals and Alloys
- B 713 Superconductors (Withdrawn 2001)

C

Cementations, Ceramic, Concrete, and Masonry Materials

- C 11 Gypsum and Related Building Materials and Systems
- C 43 Structural Clay Products (Withdrawn 2009)
- C 51 Lime and Limestone (as used by the Industry)
- C 71 Refractories
- C 119 Dimension Stone
- C 125 Concrete and Concrete Aggregates
- C 162 Glass and Glass Products
- C 168 Thermal Insulation
- C 219 Hydraulic Cement
- C 242 Ceramic White wares and Related Products

- C 274 Structural Sandwich Constructions
- C 286 Porcelain Enamel and Ceramic-Metal Systems
- C 634 Building and Environmental Acoustics
- C 709 Manufactured Carbon and Graphite
- C 717 Building Seals and Sealants
- C 822 Concrete Pipe and Related Products
- C 896 Clay Products
- C 904 Chemical-Resistant Nonmetallic Materials
- C 1145 Advanced Ceramics
- C 1154 Non-Asbestos Fiber-Reinforced Cement Products

- C 1180 Mortar and Grout for Unit Masonry
- C 1209 Concrete Masonry Units and Related Units (Withdrawn 2009)
- C 1232 Masonry

D

Miscellaneous Materials

- D 8 Materials for Roads and Pavements (Withdrawn 2011)
- D 9 Wood and Wood-Based Products
- D 16 Paint, Related Coatings, Materials, and Applications
- D 121 Coal and Coke
- D 123 Textiles
- D 459 Soaps and Other Detergents
- D 653 Soil, Rock, and Contained Fluids
- D 804 Pine Chemicals, Including Tall Oil and Related Products
- D 883 Plastics
- D 907 Adhesives

- D 996 Packaging and Distribution Environments
- D 1038 Veneer and Plywood
- D 1079 Roofing and Waterproofing
- D 1129 Water
- D 1356 Sampling and Analysis of Atmospheres
- D 1517 Leather
- D 1554 Wood-Base Fiber and Particle Panel Materials
- D 1566 Rubber
- D 1600 Abbreviated Terms Relating to Plastics
- D 1695 Cellulose and Cellulose Derivatives

- D 1711 Electrical Insulation
- D 1968 Paper and Paper Products
- D 2050 Fasteners and Closures Used with Textiles
- D 2652 Activated Carbon
- D 2825 Polishes and Related Materials
- D 2864 Electrical Insulating Liquids and Gases
- D 2946 Asbestos and Asbestos\Cement Products
- D 3053 Carbon Black
- D 3064 Aerosol Products
- D 3136 Care Labeling for Apparel, Textile, Home Furnishing, and Leather Products

- D 3766 Catalysts and Catalysis
- D 3853 Rubber and Rubber Lattices-Abbreviations for Chemicals Used in Compounding
- D 3878 Composite Materials
- D 3888 Yarn Spinning Systems
- D 3918 Reinforced Plastic Pultruded Products
- D 3990 Fabric Defects
- D 4092 Plastics: Dynamic Mechanical Properties
- D 4127 Ion-Selective Electrodes
- D 4150 Gaseous Fuels
- D 4175 Petroleum Products, Liquid Fuels, and Lubricants

- D 4391 The Burning Behavior of Textiles
- D 4410 Fluvial Sediment
- D 4439 Geosynthetics
- D 4466 Multicomponent Textile Fibers
- D 4538 Protective Coating and Lining Work for Power Generation Facilities
- D 4725 Engine Coolants and Related Fluids
- D 4790 Aromatic Hydrocarbons and Related Chemicals
- D 4845 Wool
- D 4848 Force, Deformation and Related Properties of Textiles
- D 4849 Yarns and Fibers

- D 4850 Fabrics and Fabric Test Methods
- D 4920 Conditioning, Chemical, and Thermal Properties
- D 4965 Seams and Seam Finishes Used in Home Sewing
(Withdrawn 2011)
- D 5038 Textile Conservation (Withdrawn 2009)
- D 5077 Electrostatic Discharge (ESD) Packaging Materials
- D 5219 Body Dimensions for Apparel Sizing
- D 5253 Floor Coverings and Textile Upholstered Furniture
- D 5497 Buttons (Withdrawn 2011)
- D 5535 Formed-in-Place Sealants for Joints and Cracks in
Pavements (Withdrawn 2009)
- D 5646 Seams and Stitches Used in Home Sewing

- D 5681 Waste and Waste Management
- D 5684 Pile Floor Coverings
- D 6161 Microfiltration, Ultrafiltration, Nanofiltration and Reverse Osmosis Membrane Processes
- D 6384 Biodegradability and Ecotoxicity of Lubricants
- D 6440 Hydrocarbon Resins
- D 6477 Tire Cord, Bead Wire, Hose Reinforcing Wire, and Fabrics
- D 6488 Print Problems
- D 7023 Home Furnishings

E

Miscellaneous Subjects

- E 6 Methods of Mechanical Testing
- E 7 Metallography
- E 41 Conditioning
- E 131 Molecular Spectroscopy
- E 135 Analytical Chemistry for Metals, Ores, and Related Materials
- E 170 Radiation Measurements and Dosimetry
- E 175 Microscopy
- E 176 Fire Standards
- E 253 Sensory Evaluation of Materials and Products
- E 284 Appearance

- E 344 Thermometry and Hydrometry
- E 349 Space Simulation
- E 456 Quality and Statistics
- E 473 Thermal Analysis and Rheology
- E 609 Pesticides
- E 631 Building Constructions
- E 673 Surface Analysis (Withdrawn 2012)
- E 772 Solar Energy Conversion
- E 833 Building Economics
- E 856 Physical and Chemical Characteristics of Refuse Derived Fuel (Withdrawn 2004)

- E 867 Vehicle-Pavement Systems
- E 943 Biological Effects and Environmental Fate
- E 957 Geothermal Energy
- E 1102 Agricultural Chemical Application
- E 1142 Thermophysical Properties
- E 1187 Conformity Assessment (Withdrawn 2006)
- E 1316 Nondestructive Examinations
- E 1325 Design of Experiments
- E 1328 Photovoltaic Solar Energy Conversion (Withdrawn 2012)
- E 1402 Sampling Design

- E 1445 Hazard Potential of Chemicals
- E 1480 Facility Management (Building-Related)
- E 1481 Railing Systems and Rails for Buildings
- E 1519 Agricultural Tank Mix Adjuvants
- E 1542 Occupational Health and Safety
- E 1547 Industrial and Specialty Chemicals
- E 1605 Lead in Buildings
- E 1620 Liquid Particles and Atomization
- E 1638 Sieves, Sieving Methods, and Screening Media
- E 1658 Expressing Conclusions of Forensic Document Examiners

- E 1705 Biotechnology
- E 1732 Forensic Science
- E 1749 Rigid Wall Relocatable Shelters
- E 1778 Pavement Distress
- E 1823 Fatigue and Fracture Testing
- E 1992 Terminology Management (Withdrawn 2007)
- E 2035 Forensic Psychophysiology
- E 2110 Exterior Insulation and Finish Systems (EIFS)
- E 2114 Sustainability Relative to the Performance of Buildings
- E 2135 Property and Asset Management

- E 2151 Guides for Specifying and Evaluating Performance of Single Family Attached and Detached Dwellings
- E 2201 Coal Combustion Products
- E 2265 Anchors and Fasteners in Concrete and Masonry
- E 2363 Process Analytical Technology in the Pharmaceutical Industry

F

End Use Materials and Products

- F 17 Flexible Barrier Packaging
- F 109 Surface Imperfections on Ceramics
- F 141 Resilient Floor Coverings
- F 149 Optical Character Recognition
- F 221 Carbon Paper and Inked Ribbon Products and Images Made Therefrom (Withdrawn 2015)
- F 335 Electrostatic Imaging
- F 395 Vacuum Cleaners
- F 412 Plastic Piping Systems
- F 471 Combination Locks (Withdrawn 2011)
- F 472 Geometry of Alpine Skis

- F 538 Characteristics and Performance of Tires
- F 547 Nails for Use with Wood and Wood-Base Materials
- F 549 Carbonless Copy Products
- F 552 Chain Link Fencing
- F 592 Collated and Cohered Fasteners and Their Application Tools
- F 747 Amusement Rides and Devices
- F 818 Spill Response Booms and Barriers
- F 819 Electrical Protective Equipment for Workers
- F 869 Athletic Shoes and Biomechanics (Withdrawn 2013)
- F 909 Printers

- F 921 Hemostatic Forceps
- F 1078 Surgical Scissors—Inserted and Non-Inserted Blades
- F 1107 Snowboarding
- F 1125 Image Quality in Impact Printing Systems
- F 1177 Emergency Medical Services
- F 1251 Polymeric Biomaterials in Medical and Surgical Devices
(Withdrawn 2012)
- F 1294 Automatic Identification Hard Copy Printing Systems
- F 1327 Barrier Materials for Medical Packaging (Withdrawn 2007)
- F 1379 Barbed Tape
- F 1457 Laser Printers

- F 1479 Microwave Food Packaging (Withdrawn 2007)
- F 1490 Search and Rescue (Withdrawn 2010)
- F 1494 Protective Clothing
- F 1549 Underwater Search, Rescue, and Recovery Activities
- F 1582 Spinal Implants
- F 1600 Bioremediation (Withdrawn 2014)
- F 1623 Thermal Imaging Products
- F 1638 Surgical Tissue/Dressing/Pick-Up Forceps (Thumb-Type)
- F 1646 Walkway Safety and Footwear
- F 1773 Climbing, Mountaineering, Search and Rescue Equipment and Practices

- F 1789 F16 Mechanical Fasteners
- F 1827 Food Service Equipment
- F 1840 Surgical Suture Needles
- F 1857 Ink Jet Printers and Images Made Therefrom
- F 1972 Candles and Associated Accessory Items
- F 2005 Nickel-Titanium Shape Memory Alloys
- F 2112 Membrane Switches
- F 2312 Tissue Engineered Medical Products
- F 2395 Unmanned Air Vehicle Systems (Withdrawn 2014)
- F 2429 Aerospace Transparent Materials and Enclosures
- F 2463 Livestock, Meat, and Poultry Evaluation Systems

G

Corrosion, Deterioration, and Degradation of Materials

G 193
Corrosion

Standard Terminology and Acronyms Relating to

G 40

Wear and Erosion

G 113
Materials

Natural and Artificial Weathering Tests of Nonmetallic

G 126
Enriched Atmospheres

Compatibility and Sensitivity of Materials in Oxygen

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Reference:

ASTM standards