

## **ASTM Standards on Precision and Bias for Various Applications, 6<sup>th</sup> Edition**

- C670 Standard Practice for Preparing Precision and Bias Statements for Test Methods for Construction Materials
- C802 Standard Practice for Conducting an Interlaboratory Test Program to Determine the Precision of Test Methods for Construction Materials
- C1067 Standard Practice for Conducting A Ruggedness or Screening Program for Test Methods for Construction Materials
- D2777 Standard Practice for Determination of PRECISION and Bias of Applicable Test Methods of Committee D19 on Water
- D3244 Standard Practice for Utilization of Test Data to Determine Conformance with Specifications
- D3670 Standard Guide for Determination of Precision and Bias of Methods of Committee D22
- D3856 Standard Guide for Good Laboratory Practices in Laboratories Engaged in Sampling and Analysis of Water
- D3975 Standard Practice for Development and Use (Preparation) of Samples for Collaborative Testing of Methods for Analysis of Sediments
- D4204 Standard Practice for Preparing Plastic Film Specimens for a Round-Robin Study
- D4375 Standard Practice for Basic Statistics in Committee D-19 on Water
- D4460 Standard Practice for Calculating Precision Limits Where Values are Calculated from Other Test Methods
- D4483 Standard Practice for Evaluating Precision for Test Method Standards in the Rubber and Carbon Black Manufacturing Industries
- D4821 Standard Guide for Carbon Black-Validation of Test Method Precision and Bias
- D4968 Standard Guide for Annual Review of Test Methods and Specifications for Plastics
- D5172 Standard Guide for Documenting the Standard Operating Procedures Used for the Analysis of Water
- D5847 Standard Practice for Writing Quality Control Specifications for Standard Test Methods for Water Analysis
- D596 Standard Guide for Reporting Results of Analysis of Water
- D6091 Standard Guide for 99% / 95% Interlaboratory Detection Estimate (IDE) for Analytical Methods with Negligible Calibration Error
- D6259 Standard Practice for Determination of a Pooled Limit of Quantitation
- D6299 Standard Practice for Applying Statistical Quality Assurance Techniques to Evaluate Analytical Measurement System Performance
- D6300 Standard Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and
- D6512 Standard Practice for INTERLABORATORY Quantitation Estimate

- D6518 Standard Practice for BIAS Testing a Mechanical Coal Sampling System
- D6600 Standard Practice for Evaluating Test Sensitivity for Rubber Test Methods
- D6607 Standard Practice for Inclusion of Precision Statement Variation in Specification Limits
- D6617 Standard Practice for Laboratory BIAS Detection Using Single Test Result from Standard Material
- D6631 Standard Guide for Committee D01 for Conducting an Interlaboratory Study, and Determining the Precision of a Test Method
- D6674 Standard Guide for Proficiency Test Program for Fabrics
- D6689 Standard Guide for Optimizing, Controlling and Reporting Test Method Uncertainties from Multiple Workstations in the Same Laboratory Organization
- D6708 Standard Practice for Statistical Assessment and Improvement of Expected Agreement Between Two Test Methods that Purport to Measure the Same Property of a Material
- D6792 Standard Practice for Quality System in Petroleum Products and Lubricants Testing Laboratories
- D6796 Standard Practice for Production of Coal, Coke and Coal Combustion Samples for INTERLABORATORY Studies
- D7372 Standard Guide for Analysis and Interpretation of Proficiency Test Program Results
- E29 Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications
- E105 Standard Practice for Probability Sampling Of Materials
- E122 Standard Practice for Calculating Sample Size to Estimate, With Specified Precision, the Average for a Characteristic of a Lot or Process
- E141 Standard Practice for Acceptance of Evidence Based on the Results of Probability Sampling
- E177 Standard Practice for Use of the Terms Precision and Bias in ASTM Test Methods
- E178 Standard Practice for Dealing With Outlying Observations
- E456 Standard Terminology Relating to Quality and Statistics
- E691 Standard Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method
- E739 Standard Practice for Statistical Analysis of Linear or Linearized Stress-Life (S-N) and Strain-Life ( $\epsilon$ -N) Fatigue Data
- E882 Standard Guide for Accountability and Quality Control in the Chemical Analysis Laboratory
- E1169 Standard Practice for Conducting Ruggedness Tests
- E1323 Standard Guide for Evaluating Laboratory Measurement Practices and the Statistical Analysis of the Resulting Data

- E1325 Standard Terminology Relating to Design of Experiments
- E1329 Standard Practice for Verification and Use of Control Charts in Spectrochemical Analysis
- E1345 Standard Practice for Reducing the Effect of Variability of Color Measurement by Use of Multiple Measurements
- E1402 Standard Terminology Relating to Sampling
- E1488 Standard Guide for Statistical Procedures to Use in Developing and Applying Test Methods
- E1763 Standard Guide for Interpretation and Use of Results from Interlaboratory Testing of Chemical Analysis Methods
- E1914 Standard Practice for Use of Terms Relating to the Development and Evaluation of Methods for Chemical Analysis
- E1950 Standard Practice for Reporting Results from Methods of Chemical Analysis
- E2027 Standard Practice for Conducting Proficiency Tests in the Chemical Analysis of Metals, Ores, and Related Materials
- E2093 Standard Guide for Optimizing, Controlling and Reporting Test Method Uncertainties from Multiple Workstations in the Same Laboratory Organization
- E2281 Standard Practice for Process and Measurement Capability Indices
- E2282 Standard Guide for Defining the Test Result of a Test Method
- E2437 Standard Practice for Designing and Validating Performance-Based Test Methods for the Analysis of Metals, Ores, and Related Materials
- E2438 Standard Practice for Implementing Standard Performance Based Test Methods for the Analysis of Metals, Ores, and Related Materials
- E2489 Standard Practice for Statistical Analysis of One-Sample and Two-Sample Interlaboratory Proficiency Testing Programs
- E2554 Standard Practice for Estimating and Monitoring the Uncertainty of Test Results of a Test Method in a Single Laboratory Using a Control Sample Program
- E2586 Standard Practice for Calculating and Using Basic Statistics
- E2587 Standard Practice for Use of Control Charts in Statistical Process Control
- F1469 Standard Guide for Conducting a Repeatability and Reproducibility Study on Test Equipment for Nondestructive Testing
- G162 Standard Practice for Conducting and Evaluating Laboratory Corrosions Tests in Soils
- G190 Standard Guide for Developing and Selecting Wear Tests