

ACCCI MESH Committee Quality Update

Handout

ASTM D05 – Coal and Coke

- I. Active Standards under the jurisdiction of D05.
- II. Proposed new standards under the jurisdiction of D05
- III. **WITHDRAWN** standards under the jurisdiction of D05

Active Standards with currently open work items are highlighted in yellow.

Standards must be re-balloted every 8 years or they are withdrawn from publication.

I. Active standards under the jurisdiction of D05

WK12345 * Indicates This Work Item has a Collaboration Area

[D121-15](#) Standard Terminology of Coal and Coke

Status: Current

[D167-12a](#) Standard Test Method for Apparent and True Specific Gravity and Porosity of Lump Coke

Status: Overdue

[D197-87\(2012\)](#) Standard Test Method for Sampling and Fineness Test of Pulverized Coal

Status: Overdue

[D291-07\(2012\)](#) Standard Test Method for Cubic Foot Weight of Crushed Bituminous Coal

Status: Overdue

See [WK43642](#) (Technical Contact: [Ted Todoschuk](#)) Status: Draft Under Development

[D293-93\(2010\)](#) Standard Test Method for the Sieve Analysis of Coke

Status: Overdue

See [WK61792](#) (Technical Contact: [Michael Carmon](#)) Status: Draft Under Development

WK61844 (Technical Contact: [Michael Carmon](#)) Ballot [D05 \(18-01\) Item 002](#); Status: Draft In Balloting

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

[D346/D346M-11](#) Standard Practice for Collection and Preparation of Coke Samples for Laboratory Analysis

Status: Overdue

Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

[D388-18](#) Standard Classification of Coals by Rank

Status: Current

See [WK59477](#) (Technical Contact: [Kurt Snider](#)) Ballot [D05.18 \(18-01\) Item 001](#); Ballot [D05.18 \(18-01\) Item 002](#); Ballot [D05.18 \(18-01\) Item 003](#); Ballot [D05.18 \(18-01\) Item 004](#); Ballot [D05.18 \(17-02\) Item 001](#); Ballot [D05.18 \(17-02\) Item 005](#); Status: Draft In Balloting

[D409/D409M-16](#) Standard Test Method for Grindability of Coal by the Hardgrove-Machine Method

Status: Current

See [WK60679](#) (Technical Contact: [Brandon Baker](#)) Status: Draft Under Development

[D440-07\(2012\)](#) Standard Test Method of Drop Shatter Test for Coal

Status: Overdue

[D441-07\(2012\)](#) Standard Test Method of Tumbler Test for Coal

Status: Overdue

[D720/D720M-15e1](#) Standard Test Method for Free-Swelling Index of Coal

Status: Current

[D1412/D1412M-17a](#) Standard Test Method for Equilibrium Moisture of Coal at 96 to 97 Percent Relative Humidity and 30 °C

Status: Current

See [WK60167](#) (Technical Contact: [Thomas Vetter](#)) Ballot [D05 \(17-03\) Item 003](#); Ballot [D05 \(17-03\) Item 004](#); Status: Draft In Balloting

See [WK62894](#) (Technical Contact: [James Luppens](#)) Status:

[D1857/D1857M-17a](#) Standard Test Method for Fusibility of Coal and Coke Ash

Status: Current

See [WK60875](#) (Technical Contact: [Arthur Hoefl](#)) Ballot [D05.21 \(18-01\) Item 001](#); Status: Draft In Balloting

[D2013/D2013M-12](#) Standard Practice for Preparing Coal Samples for Analysis

Status: Overdue

See [WK57430](#) (Technical Contact: [Arthur Hoefl](#)) Status: Draft Under Development

See [WK59527](#) * (Technical Contact: [Stephen Smith](#)) Ballot [D05.23 \(18-01\) Item 001](#); Status: Draft In Balloting

[D2014-97\(2010\)](#) Standard Test Method for Expansion or Contraction of Coal by the Sole-Heated Oven

Status: Overdue

See [WK61794](#) (Technical Contact: [Michael Carmon](#)) Status: Draft Under Development

WK61845 (Technical Contact: [Michael Carmon](#)) Ballot [D05 \(18-01\) Item 001](#); Status: Draft In Balloting

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

[D2234/D2234M-17](#) Standard Practice for Collection of a Gross Sample of Coal

Status: Current

See [WK58960](#) (Technical Contact: [Paul Reagan](#)) Status: Draft Approved

[D2492-02\(2012\)](#) Standard Test Method for Forms of Sulfur in Coal

Status: Overdue

[D2639/D2639M-16](#) Standard Test Method for Plastic Properties of Coal by the Constant-Torque Gieseler Plastometer

Status: Current

See [WK56661](#) (Technical Contact: [Michael Carmon](#)) Status: Draft Under Development

[D2797/D2797M-11a](#) Standard Practice for Preparing Coal Samples for Microscopical Analysis by Reflected Light

Status: Overdue

Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

[D2798-11a](#) Standard Test Method for Microscopical Determination of the Vitrinite Reflectance of Coal

Status: Overdue

Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

[D2799-13](#) Standard Test Method for Microscopical Determination of the Maceral Composition of Coal

Status: Ballot Action Required

[D2961/D2961M-17](#) Standard Test Method for Single-Stage Total Moisture Less than 15 % in Coal Reduced to 2.36-mm (No. 8 Sieve) Topsize

Status: Current

See [WK61037](#) (Technical Contact: [Henry Albert](#)) Ballot [D05.21 \(18-01\) Item 002](#); Ballot [D05.21 \(18-01\) Item 003](#); Status: Draft In Balloting

[D3038-93\(2010\)](#) Standard Test Method for Drop Shatter Test for Coke

Status: Overdue

See [WK61795](#) (Technical Contact: [Michael Carmon](#)) Status: Draft Under Development

[WK61846](#) (Technical Contact: [Michael Carmon](#)) Ballot [D05 \(18-01\) Item 003](#); Status: Draft In Balloting

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

[D3172-13](#) Standard Practice for Proximate Analysis of Coal and Coke

Status: Ballot Action Required

[D3173/D3173M-17a](#) Standard Test Method for Moisture in the Analysis Sample of Coal and Coke

Status: Current

[D3174-12](#) Standard Test Method for Ash in the Analysis Sample of Coal and Coke from Coal

Status: Overdue

[D3175-17](#) Standard Test Method for Volatile Matter in the Analysis Sample of Coal and Coke

Status: Current

[WK14148](#) (Technical Contact: [Richard Wilburn](#)) Status:

See [WK54659](#) (Technical Contact: [John Riley](#)) Status: Draft Under Development

[D3176-15](#) Standard Practice for Ultimate Analysis of Coal and Coke

Status: Current

WK14158 (Technical Contact: [David Byer](#)) Status:
WK21498 (Technical Contact: [Henry Albert](#)) Status:

[D3180-15](#) Standard Practice for Calculating Coal and Coke Analyses from As-Determined to Different Bases

Status: Current

[D3302/D3302M-17](#) Standard Test Method for Total Moisture in Coal

Status: Current

[D3402/D3402M-16](#) Standard Test Method for Tumbler Test for Coke

Status: Current

[D3682-13](#) Standard Test Method for Major and Minor Elements in Combustion Residues from Coal Utilization Processes

Status: Ballot Action Required

See [WK61061](#) (Technical Contact: [Kelly Olenyik](#)) Status: Draft Under Development

[D3683-11](#) Standard Test Method for Trace Elements in Coal and Coke Ash by Atomic Absorption

Status: Overdue

See [WK61060](#) (Technical Contact: [Kelly Olenyik](#)) Ballot [D05.29 \(18-01\) Item 001](#); Status: Draft In Balloting

Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

[D3761-10](#) Standard Test Method for Total Fluorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method

Status: Overdue

See [WK48901](#) (Technical Contact: [Paul Differding](#)) Status: Draft Withdrawn

See [WK61059](#) (Technical Contact: [Kelly Olenyik](#)) Ballot [D05.29 \(18-01\) Item 002](#); Status: Draft In Balloting

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

[D3997/D3997M-16](#) Standard Practice for Preparing Coke Samples for Microscopical Analysis by Reflected Light

Status: Current

[D4208-13](#) Standard Test Method for Total Chlorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method

Status: Ballot Action Required

[D4239-17](#) Standard Test Method for Sulfur in the Analysis Sample of Coal and Coke Using High-Temperature Tube Furnace Combustion

Status: Current

See [WK60328](#) (Technical Contact: [Kelly Olenyik](#)) Ballot [D05 \(18-01\) Item 004](#); Status: Draft In Balloting

See [WK61823](#) (Technical Contact: [Henry Albert](#)) Ballot [D05.21 \(18-01\) Item 005](#); Status: Draft In Balloting

[D4326-13](#) Standard Test Method for Major and Minor Elements in Coal and Coke Ash By X-Ray Fluorescence

Status: Ballot Action Required

[D4371-06\(2012\)](#) Standard Test Method for Determining the Washability Characteristics of Coal

Status: Overdue

[WK8848](#) (Technical Contact: [Charles Renner](#)) Status:

[D4596-09\(2015\)](#) Standard Practice for Collection of Channel Samples of Coal in a Mine

Status: Current

[D4606-15](#) Standard Test Method for Determination of Arsenic and Selenium in Coal by the Hydride Generation/Atomic Absorption Method

Status: Current

[D4749-87\(2012\)](#) Standard Test Method for Performing the Sieve Analysis of Coal and Designating Coal Size

Status: Overdue

[D5016-16](#) Standard Test Method for Total Sulfur in Coal and Coke Combustion Residues Using a High-Temperature Tube Furnace Combustion Method with Infrared Absorption

Status: Current

D5061-16 Standard Test Method for Microscopical Determination of the Textural Components of Metallurgical Coke

Status: Current

See [WK50809](#) (Technical Contact: [Paul Hackley](#)) Ballot [D05 \(18-01\) Item 006](#); Ballot [D05 \(15-03\) Item 002](#); Ballot [D05 \(15-03\) Item 003](#); Status: Draft In Balloting

D5114-90(2010) Standard Test Method for Laboratory Froth Flotation of Coal in a Mechanical Cell

Status: Overdue

See [WK59187](#) (Technical Contact: [Allan Seaman](#)) Status: Draft Under Development

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

D5192-09(2015) Standard Practice for Collection of Coal Samples from Core

Status: Current

D5263-15 Standard Test Method for Determining the Relative Degree of Oxidation in Bituminous Coal by Alkali Extraction

Status: Current

D5341/D5341M-17a Standard Test Method for Measuring Coke Reactivity Index (CRI) and Coke Strength After Reaction (CSR)

Status: Current

See [WK58114](#) * (Technical Contact: [Ted Todoschuk](#)) Ballot [D05.15 \(17-01\) Item 005](#); Ballot [D05.15 \(17-01\) Item 007](#); Ballot [D05.15 \(17-01\) Item 008](#); Ballot [D05.15 \(17-01\) Item 009](#); Ballot [D05.15 \(17-01\) Item 011](#); Ballot [D05.15 \(17-01\) Item 013](#); Status: Draft Approved

D5373-16 Standard Test Methods for Determination of Carbon, Hydrogen and Nitrogen in Analysis Samples of Coal and Carbon in Analysis Samples of Coal and Coke

Status: Current

D5515-17a Standard Test Method for Determination of the Swelling Properties of Bituminous Coal Using a Dilatometer

Status: Current

[D5671-95\(2011\)](#) Standard Practice for Polishing and Etching Coal Samples for Microscopical Analysis by Reflected Light

Status: Overdue

Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

[D5865-13](#) Standard Test Method for Gross Calorific Value of Coal and Coke

Status: Ballot Action Required

See [WK61160](#) (Technical Contact: [Henry Albert](#)) Status: Draft Under Development

[D5987-96\(2015\)](#) Standard Test Method for Total Fluorine in Coal and Coke by Pyrohydrolytic Extraction and Ion Selective Electrode or Ion Chromatograph Methods

Status: Current

[D6172-98\(2010\)](#) Standard Test Method for Determining the Volume of Bulk Materials Using Contours or Cross Sections Created by Direct Operator Compilation Using Photogrammetric Procedures

Status: Overdue

WK59186 (Technical Contact: [Allan Seaman](#)) Ballot [D05 \(17-02\) Item 001](#); Status: Draft In Balloting

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

[D6316-17](#) Standard Test Method for Determination of Total, Combustible and Carbonate Carbon in Solid Residues from Coal and Coke

Status: Current

See [WK59321](#) (Technical Contact: [Kelly Olenyik](#)) Status: Draft Approved

[D6347/D6347M-05\(2010\)](#) Standard Test Method for Determination of Bulk Density of Coal Using Nuclear Backscatter Depth Density Methods

Status: Overdue

WK59185 (Technical Contact: [Allan Seaman](#)) Ballot [D05 \(17-02\) Item 002](#); Status: Draft In Balloting

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

D6349-13 Standard Test Method for Determination of Major and Minor Elements in Coal, Coke, and Solid Residues from Combustion of Coal and Coke by Inductively Coupled Plasma—Atomic Emission Spectrometry

Status: Ballot Action Required

D6357-11 Test Methods for Determination of Trace Elements in Coal, Coke, & Combustion Residues from Coal Utilization Processes by Inductively Coupled Plasma Atomic Emission, Inductively Coupled Plasma Mass, & Graphite Furnace Atomic Absorption Spectrometry

Status: Overdue

See [WK60059](#) * (Technical Contact: [Kelly Olenyik](#)) Status: Draft Under Development

WK60204 (Technical Contact: [Kelly Olenyik](#)) Ballot [D05.29 \(18-01\) Item 003](#); Status: Draft In Balloting

Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

D6414-14 Standard Test Methods for Total Mercury in Coal and Coal Combustion Residues by Acid Extraction or Wet Oxidation/Cold Vapor Atomic Absorption

Status: Review for Ballot

D6542-05(2010) Standard Practice for Tonnage Calculation of Coal in a Stockpile

Status: Overdue

WK59184 (Technical Contact: [Allan Seaman](#)) Ballot [D05 \(17-02\) Item 003](#); Status: Draft In Balloting

Note: Standard needs to be issued to main committee ballot no later than 1 November of this year and approved by 31 December or it will be withdrawn.

D6543-17a Standard Guide to the Evaluation of Measurements Made by Online Coal Analyzers

Status: Current

See [WK56867](#) * (Technical Contact: [Stephen Smith](#)) Status: Draft Approved

See [WK61018](#) (Technical Contact: [Charles Morgan](#)) Status: Draft Under Development

D6609-17 Standard Guide for Part-Stream Sampling of Coal

Status: Current

See [WK56481](#) (Technical Contact: [Paul Reagan](#)) Status: Draft Approved

[D6721-01\(2015\)](#) Standard Test Method for Determination of Chlorine in Coal by Oxidative Hydrolysis Microcoulometry

Status: Current

[D6722-11](#) Standard Test Method for Total Mercury in Coal and Coal Combustion Residues by Direct Combustion Analysis

Status: Overdue

See [WK60058](#) (Technical Contact: [Kelly Olenyik](#)) Ballot [D05.29 \(18-01\) Item 004](#); Status: Draft In Balloting

Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

[D6796-16](#) Standard Practice for Production of Coal, Coke and Coal Combustion Samples for Interlaboratory Studies

Status: Current

[D6883-17](#) Standard Practice for Manual Sampling of Stationary Coal from Railroad Cars, Barges, Trucks, or Stockpiles

Status: Current

See [WK56482](#) (Technical Contact: [Paul Reagan](#)) Status: Draft Approved

[D7348-13](#) Standard Test Methods for Loss on Ignition (LOI) of Solid Combustion Residues

Status: Ballot Action Required

[D7430-17](#) Standard Practice for Mechanical Sampling of Coal

Status: Current

See [WK35366](#) (Technical Contact: [Paul Reagan](#)) Status: Draft Under Development

See [WK56307](#) (Technical Contact: [Paul Reagan](#)) Status: Draft Approved

See [WK56309](#) (Technical Contact: [Paul Reagan](#)) Status: Draft Approved

See [WK56310](#) (Technical Contact: [Paul Reagan](#)) Status: Draft Under Development

See [WK56483](#) (Technical Contact: [Paul Reagan](#)) Ballot [D05 \(17-02\) Item 021](#); Ballot [D05 \(17-02\) Item 022](#); Status: Draft Approved

See [WK59039](#) (Technical Contact: [Paul Reagan](#)) Ballot [D05 \(18-01\) Item 005](#); Status: Draft In Balloting

[D7448-16](#) Standard Practice for Establishing the Competence of Laboratories Using ASTM Procedures in the Sampling and Analysis of Coal and Coke

Status: Current

[D7569/D7569M-10\(2015\)e1](#) Standard Practice for Determination of Gas Content of Coal—Direct Desorption Method

Status: Current

[D7582-15](#) Standard Test Methods for Proximate Analysis of Coal and Coke by Macro Thermogravimetric Analysis

Status: Current

[D7708-14](#) Standard Test Method for Microscopical Determination of the Reflectance of Vitrinite Dispersed in Sedimentary Rocks

Status: Review for Ballot

[D8010-16](#) Standard Practice for Determination of Water Soluble Alkali Content in Coal

Status: Current

See [WK56552](#) (Technical Contact: [Kelly Olenyik](#)) Ballot [D05.21 \(18-01\) Item 006](#); Status: Draft In Balloting

II. Proposed new standards under the jurisdiction of D05

[WK22936](#) * New Test Method for Determination of Sulfur Forms in Coal by ICP-AES (Technical Contact: [Colin Campbell](#))

[WK28963](#) * New Test Method for Single-Stage Total Moisture in Coke (Technical Contact: [Micheal Haven](#))

[WK40781](#) Determination of Uncertainty in Coal Resource Assessments (Technical Contact: [James Luppens](#))

[WK44683](#) * New Test Method for Determination of Total Fluorine and Chlorine in Coal by Oxidative Pyrohydrolytic Combustion Followed by Ion Chromatography Detection (Combustion Ion Chromatography-CIC) (Technical Contact: [Adelon Agustin](#))

[WK45604](#) New Test Method for Determining the Volume of Bulk Materials Using Total Station with prism and reflectorless EDM, (electronic distance meter), Field Procedures¹ (Technical Contact: [Jesse Belcher](#))

[WK48831](#) * New Test Method for Chlorine in coal by XRF (Technical Contact: [Colin Campbell](#))

[WK49397](#) New Test Method for Reflectance Measurements of Coke (Technical Contact: [Richard Pearson](#))

[WK56550](#) Determination of Boron in Coal (Technical Contact: [Kelly Olenyik](#))

[WK58953](#) Determination of chlorine and fluorine by Bomb combustion and IC (Technical Contact: [Thomas Vetter](#))

[WK62844](#) Practice for Determination of Uncertainty in Coal Resource Assessments (Technical Contact: [James Luppens](#))

III. **WITHDRAWN** standards under the jurisdiction of D05

[D1757-03 Standard Test Method for Sulfate Sulfur in Ash from Coal and Coke \(Withdrawn 2009\)](#)

[D2015-00 Standard Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter \(Withdrawn 2000\)](#)

[D2361-02 Standard Test Method for Chlorine in Coal \(Withdrawn 2008\)](#)

[D2795-95 Standard Test Methods for Analysis of Coal and Coke Ash \(Withdrawn 2001\)](#)

[D3179-02e1 Standard Test Methods for Nitrogen in the Analysis Sample of Coal and Coke \(Withdrawn 2008\)](#)

[D3684-01\(2006\) Standard Test Method for Total Mercury in Coal by the Oxygen Bomb Combustion/Atomic Absorption Method \(Withdrawn 2014\)](#)

If you wish to provide input and participate in the development of these standards, please contact the ACCCI MESH Quality Subcommittee chair: Jeff McCord of ABC Coke – jmccord@abccoke.com – (205)849-1365. ASTM is always looking for industry professionals and experts in the field.