



ACCCI MESH Quality Subcommittee

OCTOBER 2017

Quality Update

- ▶ ASTM D05 Coal and Coke Developments in 2017
 - ▶ New or Updated ASTM D05 Standards for 2017
 - ▶ Older ASTM Standards With Open Work Items, Ballots, or Requiring Review
 - ▶ Proposed New Standards Under D05

ASTM D05 – Coal and Coke Subcommittees

- ▶ D05.07 Physical Characteristics of Coal
- ▶ D05.15 Metallurgical Properties of Coal and Coke
- ▶ D05.18 Classification of Coals
- ▶ D05.21 Methods of Analysis
- ▶ D05.23 Sampling
- ▶ D05.24 Statistics
- ▶ D05.28 Petrographic Analysis of Coal and Coke
- ▶ D05.29 Major Elements in Ash and Trace Elements of Coal

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

- ▶ **D1412/D1412M-17a Standard Test Method for Equilibrium Moisture of Coal at 96 to 97 Percent Relative Humidity and 30 °C**

Status: Current

- ▶ See WK53896 (Technical Contact: James Luppens) Ballot D05.21 (16-03) Item 001; Status: Draft Approved
See WK58958 (Technical Contact: Henry Albert) Status: Draft Approved
See WK60167 (Technical Contact: Thomas Vetter) Ballot D05 (17-03) Item 003; Ballot D05 (17-03) Item 004; Status: Draft In Balloting

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

- ▶ **D1857/D1857M-17a Standard Test Method for Fusibility of Coal and Coke Ash**
Status: Current
 - ▶ See WK56882 (Technical Contact: Kelly Olenyik) Status: Draft Approved

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

- ▶ **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
- ▶ **D3173/D3173M-17 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke**
Status: Current

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

- ▶ **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

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

- ▶ **D3302/D3302M-17 Standard Test Method for Total Moisture in Coal**

Status: Current

- ▶ See WK46783 (Technical Contact: Paul Differding) Ballot D05.21 (14-01) Item 010; Status: Draft Withdrawn

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

▶ **D388-17 Standard Classification of Coals by Rank**

Status: Current

- ▶ See [WK42218](#) (Technical Contact: [Arthur Hoefft](#)) Status:
- See [WK47522](#) (Technical Contact: [Henry Albert](#)) Status: Draft Withdrawn
- See [WK47529](#) (Technical Contact: [Thomas Vetter](#)) Status: Draft Under Development
- See [WK53529](#) (Technical Contact: [Arthur Hoefft](#)) Status: Draft Withdrawn
- See [WK53530](#) (Technical Contact: [Kurt Snider](#)) Status: Draft Withdrawn
- See [WK55718](#) (Technical Contact: [Kurt Snider](#)) Status: Draft Approved
- See [WK59477](#) (Technical Contact: [Kurt Snider](#)) Ballot [D05 \(17-03\) Item 002](#); Ballot [D05.18 \(17-02\) Item 001](#); Ballot [D05.18 \(17-02\) Item 002](#); Ballot [D05.18 \(17-02\) Item 004](#); Ballot [D05.18 \(17-02\) Item 005](#); Status: Draft In Balloting

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

- ▶ **D4239-17 Standard Test Method for Sulfur in the Analysis Sample of Coal and Coke Using High-Temperature Tube Furnace Combustion**
Status: Current
 - ▶ See WK55250 (Technical Contact: Kelly Olenyik) Status: Draft Approved
 - ▶ See WK60328 (Technical Contact: Kelly Olenyik) Ballot D05.21 (17-03) Item 001; Status: Draft In Balloting

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

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

Status: Current

- ▶ See WK53312 (Technical Contact: Michael Carmon) Ballot D05 (16-04) Item 001; Ballot D05 (16-04) Item 003; Status: Draft Approved

New or Updated ASTM D05 (Coal and Coke) Standards for 2017

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

Status: Current

- ▶ See WK56867 * (Technical Contact: Stephen Smith) Ballot D05.23 (17-02) Item 002; Status: Draft In Balloting
- ▶ See WK56903 (Technical Contact: Charles Morgan) Status: Draft Approved



ASTM Standards With Open Work Items, Ballots, or Requiring Review

D05.07 Physical Characteristics of Coal

- ▶ **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 revised or reapproved by December 31st of next year or it will be withdrawn.

D05.07 Physical Characteristics of Coal

- ▶ **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 revised or reapproved by December 31st of next year or it will be withdrawn.
- ▶ **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 revised or reapproved by December 31st of next year or it will be withdrawn.

D05.07 Physical Characteristics of Coal

- ▶ **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 revised or reapproved by December 31st of next year or it will be withdrawn.

D05.15 Metallurgical Properties of Coal and Coke

- ▶ **D291-07(2012) Standard Test Method for Cubic Foot Weight of Crushed Bituminous Coal**

Status: Ballot Action Required

- ▶ See WK43642 (Technical Contact: Ted Todoschuk) Status: Draft Under Development

- ▶ **D293-93(2010) Standard Test Method for the Sieve Analysis of Coke**

Status: Overdue

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

D05.15 Metallurgical Properties of Coal and Coke

- ▶ **D2014-97(2010) Standard Test Method for Expansion or Contraction of Coal by the Sole-Heated Oven**

Status: Overdue

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

- ▶ **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

D05.15 Metallurgical Properties of Coal and Coke

▶ **D3038-93(2010) Standard Test Method for Drop Shatter Test for Coke**

Status: Overdue

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

▶ **D5341/D5341M-14 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 Partially Approved

D05.21 Methods of Analysis

- ▶ **D5865-13 Standard Test Method for Gross Calorific Value of Coal and Coke**

Status: Review for Ballot

- ▶ See WK23827 * (Technical Contact: Henry Albert) Status: Draft Under Development

- ▶ **D8010-16 Standard Practice for Determination of Water Soluble Alkali Content in Coal**

Status: Current

- ▶ See WK56552 (Technical Contact: Kelly Olenyik) Status: Draft Under Development

D05.23 Sampling

- ▶ **D346/D346M-11 Standard Practice for Collection and Preparation of Coke Samples for Laboratory Analysis**
Status: Overdue
- ▶ **D2013/D2013M-12 Standard Practice for Preparing Coal Samples for Analysis**
Status: Ballot Action Required
 - ▶ See WK57430 (Technical Contact: Arthur Hoefft) Status: Draft Under Development
See WK59527 * (Technical Contact: Stephen Smith) Ballot D05.23 (17-02) Item 001; Status: Draft In Balloting

D05.23 Sampling

- ▶ **D2234/D2234M-16 Standard Practice for Collection of a Gross Sample of Coal**

Status: Current

- ▶ See WK58960 (Technical Contact: Paul Reagan) Ballot D05 (17-02) Item 015; Status: Draft In Balloting

D05.23 Sampling

- ▶ **D6609-08(2015) Standard Guide for Part-Stream Sampling of Coal**

Status: Current

- ▶ See WK56481 (Technical Contact: Paul Reagan) Ballot D05 (17-02) Item 016; Status: Draft In Balloting

- ▶ **D6883-04(2012) Standard Practice for Manual Sampling of Stationary Coal from Railroad Cars, Barges, Trucks, or Stockpiles**

Status: Ballot Action Required

- ▶ See WK56482 (Technical Contact: Paul Reagan) Ballot D05 (17-02) Item 017; Status: Draft In Balloting

D05.23 Sampling

▶ **D7430-16be1 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) Ballot D05 (17-02) Item 018; Status: Draft In Balloting
- See WK56309 (Technical Contact: Paul Reagan) Ballot D05 (17-02) Item 019; Status: Draft In Balloting
- See WK56310 (Technical Contact: Paul Reagan) Status: Draft Under Development
- See WK56483 (Technical Contact: Paul Reagan) Ballot D05 (17-02) Item 020; Ballot D05 (17-02) Item 021; Ballot D05 (17-02) Item 022; Status: Draft In Balloting
- See WK59039 (Technical Contact: Paul Reagan) Ballot D05.23 (17-02) Item 003; Status: Draft In Balloting

D05.28 Petrographic Analysis of Coal and Coke

- ▶ **D2797/D2797M-11a Standard Practice for Preparing Coal Samples for Microscopical Analysis by Reflected Light**
Status: Overdue
- ▶ **D2798-11a Standard Test Method for Microscopical Determination of the Vitrinite Reflectance of Coal**
Status: Overdue
- ▶ **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 (15-03) Item 002; Ballot D05 (15-03) Item 003; Ballot D05.28 (16-01) Item 001; Status: Draft In Balloting
 - ▶ WK51907 (Technical Contact: Ted Todoschuk) Status: Draft Withdrawn

D05.28 Petrographic Analysis of Coal and Coke

- ▶ **D5671-95(2011) Standard Practice for Polishing and Etching Coal Samples for Microscopical Analysis by Reflected Light**

Status: Overdue

- ▶ See WK43332 (Technical Contact: Paul Hackley) Status: Draft Under Development

D05.29 Major Elements in Ash and Trace Elements of Coal

- ▶ **D3683-11 Standard Test Method for Trace Elements in Coal and Coke Ash by Atomic Absorption**
Status: Overdue
- ▶ **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) Ballot D05 (17-03) Item 005; Ballot D05 (17-03) Item 006; Ballot D05 (17-03) Item 007; Ballot D05 (17-03) Item 008; Ballot D05 (17-03) Item 009; Ballot D05 (17-03) Item 010; Ballot D05 (17-03) Item 011; Status: Draft In Balloting
Note: Standard needs to be revised or reapproved by December 31st of next year or it will be withdrawn.

D05.29 Major Elements in Ash and Trace Elements of Coal

- ▶ **D6316-09be1 Standard Test Method for Determination of Total, Combustible and Carbonate Carbon in Solid Residues from Coal and Coke**

Status: Overdue

- ▶ See WK59321 (Technical Contact: Kelly Olenyik) Ballot D05.29 (17-01) 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.

D05.29 Major Elements in Ash and Trace Elements of Coal

- ▶ **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 (17-03) Item 012; Status: Draft In Balloting

D05.29 Major Elements in Ash and Trace Elements of Coal

- ▶ **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) Status: Draft Under Development

Proposed New Standards Under D05

- ▶ **WK22936 * New Test Method for Determination of Sulfur Forms in Coal by ICP-AES** (Technical Contact: [Colin Campbell](#)) Ballot D05.21 (17-02) Item 001;
- ▶ **WK28963 * New Test Method for Single-Stage Total Moisture in Coke** (Technical Contact: [Micheal Haven](#))
- ▶ **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: [Mark Manahan](#))

Proposed New Standards Under D05

- ▶ **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](#))
- ▶ **WK49984 New Test Method for Fluorine and Chlorine in Coal by Bomb Combustion and Ion Chromatography** (Technical Contact: [Angela Hart](#))

Proposed New Standards Under D05

- ▶ **WK56550 * Determination of Boron in Coal** (Technical Contact: Kelly Olenyik)
- ▶ **WK58953 Determination of chlorine and fluorine by Bomb combustion and IC** (Technical Contact: Colin Campbell)



Any Questions?

ACCCI QUALITY UPDATE

FALL 2017 MESH MEETING