



Designation: D121 – 24

Standard Terminology of Coal and Coke¹

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1. Scope

1.1 This terminology defines the technical terms used in standards that are the responsibility of Committee D05 on Coal and Coke. The terms are used in:

1.1.1 The sampling of coal and coke under conditions required for most commercial and technical purposes related to coal and coke.

1.1.2 Bias and related statistical testing,

1.1.3 The description of coal, both visually in the field and microscopically in the laboratory,

1.1.4 Chemical and physical analyses of coal and coke,

1.1.5 Classification of coal, and

1.1.6 Certain other related practices and guides applicable to the coal and coke industries.

1.1.7 The values stated in SI units are to be regarded as standard. The value given in parentheses after SI units are provided for information only and are not considered standard.

1.2 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D388 Classification of Coals by Rank

D1412/D1412M Test Method for Equilibrium Moisture of Coal at 96 to 97 Percent Relative Humidity and 30 °C

D1857/D1857M Test Method for Fusibility of Coal and Coke Ash

D2013/D2013M Practice for Preparing Coal Samples for Analysis

D2234/D2234M Practice for Collection of a Gross Sample of Coal

D2639/D2639M Test Method for Plastic Properties of Coal by the Constant-Torque Gieseler Plastometer

D2798 Test Method for Microscopical Determination of the Vitrinite Reflectance of Coal

D2799 Test Method for Microscopical Determination of the Maceral Composition of Coal

D3172 Practice for Proximate Analysis of Coal and Coke

D3173/D3173M Test Method for Moisture in the Analysis Sample of Coal and Coke

D3174 Test Method for Ash in the Analysis Sample of Coal and Coke from Coal

D3175 Test Method for Volatile Matter in the Analysis Sample of Coal and Coke

D3176 Practice for Ultimate Analysis of Coal and Coke

D3180 Practice for Calculating Coal and Coke Analyses from As-Determined to Different Bases

D3302/D3302M Test Method for Total Moisture in Coal

D4371/D4371M Test Method for Determining the Washability Characteristics of Coal

D4749/D4749M Test Method for Performing the Sieve Analysis of Coal and Designating Coal Size

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

D5114/D5114M Test Method for Laboratory Froth Flotation of Coal in a Mechanical Cell

D5192/D5192M Practice for Collection of Coal Samples from Core

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

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

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

D5865/D5865M Test Method for Gross Calorific Value of Coal and Coke

D6316 Test Method for Determination of Total, Combustible and Carbonate Carbon in Solid Residues from Coal and Coke

D7430/D7430M Practice for Mechanical Sampling of Coal

D7582 Test Methods for Proximate Analysis of Coal and Coke by Macro Thermogravimetric Analysis

¹ This terminology is under the jurisdiction of ASTM Committee D05 on Coal and Coke and is the direct responsibility of Subcommittee D05.24 on Statistics.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.