



Standard Terminology of Coal and Coke¹

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1. Scope

1.1 This standard 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.

2. Referenced Documents

2.1 ASTM Standards:

D 388 Classification of Coals by Rank²

D 1412 Test Method for Equilibrium Moisture of Coal at 96 to 97 Percent Relative Humidity and 30°C²

D 1857 Test Method for Fusibility of Coal and Coke Ash²

D 2013 Method of Preparing Coal Samples for Analysis²

D 2015 Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter²

D 2234 Practice for Collection of a Gross Sample of Coal²

D 2361 Test Method for Chlorine in Coal²

D 2795 Test Methods for Analysis of Coal and Coke Ash²

D 2796 Terminology Relating to Megascopic Description of Coal and Coal Seams and Microscopical Description and Analysis of Coal³

D 2797 Practice for Preparing Coal Samples for Microscopical Analysis by Reflected Light²

D 2798 Test Method for Microscopical Determination of the Reflectance of Vitrinite in a Polished Specimen of Coal²

D 2799 Test Method for Microscopical Determination of Volume Percent of Physical Components of Coal²

D 2961 Test Method for Total Moisture in Coal Reduced to 2.36-mm (No. 8) Mesh Top Sieve Size (Limited-Purpose Method)²

D 3172 Practice for Proximate Analysis of Coal and Coke²

D 3173 Test Method for Moisture in the Analysis Sample of Coal and Coke²

D 3174 Test Method for Ash in the Analysis Sample of Coal and Coke from Coal²

D 3175 Test Method for Volatile Matter in the Analysis Sample of Coal and Coke²

D 3176 Practice for Ultimate Analysis of Coal and Coke²

D 3180 Practice for Calculating Coal and Coke Analyses from As-Determined to Different Bases²

D 3286 Test Method for Gross Calorific Value of Coal and Coke by the Isoperibol Bomb Calorimeter²

D 3302 Test Method for Total Moisture in Coal²

D 4371 Test Method for Determining the Washability Characteristics of Coal²

D 4749 Test Method for Performing Sieve Analysis of Coal and Designating Coal Size²

D 4915 Guide for Manual Sampling of Coal from Tops of Railroad Cars²

D 4916 Practice for Mechanical Auger Sampling²

D 5061 Test Method for Microscopical Determination of Volume Percent of Textural Components in Metallurgical Coke²

D 5114 Test Method for Laboratory Froth Flotation of Coal in a Mechanical Cell²

D 5192 Practice for Collection of Coal Samples from Core²

D 6316 Test Method for Determination of Total, Combustible and Carbonate Carbon in Solid Residues from Coal and Coke²

E 177 Practice for Use of the Terms Precision and Bias in ASTM Test Methods⁴

E 456 Terminology Relating to Quality and Statistics⁴

3. Terminology

air-dried moisture—this term has been used inappropriately to refer to both residual moisture and air-dry loss. Because of the potential for confusion, this term shall not be used.

air drying, *n*—a process of partial drying of coal to bring its moisture near to equilibrium with the atmosphere in the

¹ This terminology is under the jurisdiction of ASTM Committee D05 on Coal and Coke and is the direct responsibility of Subcommittee D05.30 on Quality Assurance.

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² *Annual Book of ASTM Standards*, Vol 05.06.

³ Discontinued; see 1994 *Annual Book of ASTM Standards*, Vol 05.05.

⁴ *Annual Book of ASTM Standards*, Vol 14.02.