

# Standard Practice for Ultimate Analysis of Coal and Coke<sup>1</sup>

This standard is issued under the fixed designation D3176; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or approval.

## 1. Scope

1.1 This practice covers the term ultimate analysis as it is applied to the analysis of coal and coke. The information derived is intended for the general utilization by applicable industries, to provide the basis for evaluation, beneficiation, or for other purposes.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

1.2.1 All percentages are percent mass fractions.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

## Referenced Documents

### 2.1 ASTM Standards:<sup>2</sup>

D1177 Practice for Collection and Preparation of Coke Samples for Laboratory Analysis

D2177 Practice for Preparing Coal Samples for Analysis

D2274–D2274–M Practice for Collection of a Gross Sample of Coal

D5172 Practice for Proximate Analysis of Coal and Coke

D5177 Test Method for Moisture in the Analysis Sample of Coal and Coke

D5178 Test Method for Ash in the Analysis Sample of Coal and Coke from Coal

D5179 Test Method for Total Moisture in Coal

D5179 Test Method for Sulfur in the Analysis Sample of Coal and Coke Using High-Temperature Tube Furnace Combustion

D5596 Practice for Collection of Channel Samples of Coal in a Mine

This practice is under the jurisdiction of ASTM Committee D05 on Coal and Coke and is the direct responsibility of Subcommittee D05.21 on Methods of Analysis.

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D5192 Practice for Collection of Coal Samples from Coking  
D5177 Test Methods for Determination of Carbon, Hydrogen and Nitrogen in Analysis Samples of Coal and Carbon in Analysis Samples of Coal and Coke  
D6689 Guide for Part-Stream Sampling of Coal  
D6883 Practice for Manual Sampling of Stationary Coal from Railroad Cars, Barges, Trucks, or Stockpiles  
D7480 Practice for Mechanical Sampling of Coal  
D7582 Test Methods for Proximate Analysis of Coal and Coke by Micro-Thermogravimetric Analysis

## 3. Terminology

### 3.1 Definitions:

3.1.1 *ultimate analysis*—in the case of coal and coke, the determination of carbon, hydrogen, nitrogen, and sulfur in the material, as found in the gaseous products of its complete combustion, the determination of ash in the material as a whole, and the calculation of oxygen by difference.

Note 1—Moisture is not by definition a part of the ultimate analysis of coal or coke but must be determined in order that analytical data may be converted to bases other than that of the analysis sample.

Note 2—Inasmuch as some coals contain mineral carbonates, and practically all contain clay or shale containing combined water, a part of the carbon, hydrogen, and oxygen found in the products of combustion may arise from these mineral components.

## 4. Significance and Use

4.1 Summarizing the ash content and the content of the organic constituents in a specific format under the heading, *Ultimate Analysis*, provides a convenient and uniform system for comparing coals or cokes. This tabulation used with that of *Proximate Analysis* (Practice D5177) permits cursory valuation of coals for use as fuel or in other carbonaceous processes and of cokes for metallurgical purpose.

## 5. General Requirements

5.1 Coal sample collection shall be in accordance with any of the following Guides or Practices as appropriate: D7480, D7582, D1177, D2274, D2274–M, D5596, D5192, and D6689.

5.2 For coal, sample preparations shall be in accordance with Practices D2274 or D7480. The analysis sample shall be the material pulverized to pass a 250  $\mu\text{m}$  (No. 60) sieve in accordance with Practice D5013.

# Ultimate Analysis Of Coal Pdf

**Farshid Zabihiyan**



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**Handbook of Coal Analysis** James G. Speight,2015-03-30 Provides users with everything they need to know about testing and analysis of coal Includes new coverage on environmental issues and regulations as related to coal Provides the reader with the necessary information about testing and analyzing coal and relays the advantages and limitations in understanding the quality and performance of coal Explains the meaning of test results and how these results can predict coal behavior and its corresponding environmental impact during use Includes a comprehensive Glossary which defines items in straightforward language that enable readers to better understand the terminology related to coal Treats issues related to sampling and accuracy and precision of analysis *Global Environment Research of Japan* ,1997

*Ultimate Analysis of Coal* British Standards Institution,1969 **Thermal, Power and Electrical Engineering** Charles C. Zhou,Guo Jun Ma,Ru Tang Liao,Jian Wen Wang,2013-08-16 Selected peer reviewed papers from the 2013 2nd International Conference on Energy and Environmental Protection ICEEP 2013 April 19 21 2013 Guilin China Journal of Scientific and Industrial Research ,2013 *Handbook of Environmental Engineering Calculations, Third Edition* C. C. Lee,Shun Dar Lin,2025-12-26 The only hands on reference of its kind delivers step by step calculation procedures covering

virtually every aspect of environmental engineering fully updated Providing quick and easy access to the information you need most Handbook of Environmental Engineering Calculations Third Edition examines the latest issues you are likely to face today Covering everything from solid waste disposal and wastewater treatment to air pollution control it provides practical calculational procedures and integrates the regulatory requirements into engineering designs so the resulting designs fit the current legal framework Fully updated the Handbook of Environmental Engineering Calculations Third Edition features The latest methods for solving specific problems with worked out examples that include numerical results for calculations All new content bridging the information gap between environmental regulatory requirements and waste treatment compliance Detailed methods for creation of engineering designs for wastewater treatment solid waste treatment and air pollution

*Coal. Ultimate Analysis* British Standards Institute Staff,1913-07-31 Coal Coal products Solid fuels Chemical analysis and testing Determination of content Carbon Mathematical calculations *Government Reports Announcements & Index* ,1993 **Coal Abstracts** ,1993 *China* World Bank,1993 The Republic of Korea s industrial policy has directed that nation s economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy s structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required While dealing with the complexities of the transition the government would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts

**Multiphase Flow: The Ultimate Measurement Challenge** Xiaoshu Cai,2007-07-02 This volume contains peer reviewed papers presented at the 5th International Symposium on Measurement Techniques for Multiphase Flows and 2nd International Workshop on Process Tomography This symposium covers a wide scope of multiphase measurements including measurements Advanced methods and recent researching developments in these fields are submitted for academic communication and discussion ASABE Standards American Society of Agricultural and Biological Engineers,2007 Standard Practice for Ultimate Analysis of Coal and Coke ASTM Committee D-5 on Coal and Coke,2009 **Energy Research Abstracts** ,1995 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety

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