

Standard Practice for Ultimate Analysis of Coal and Coke¹

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 (ϵ) 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:²

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

D5595 Practice for Collection of Channel Samples of Coal in a Mine

D5192 Practice for Collection of Coal Samples from Cans

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, D7740, D7741, D7742, D6689, D5595, D5192, and D6883.

5.2 For coal, sample preparations shall be in accordance with Practices D5017 or D7480. The analysis sample shall be the material pulverized to pass a 250 μm (No. 60) sieve in accordance with Practice D5017.

¹This 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.

²The current edition approved Jan. 1, 2015. Published January 2015. Originally issued in 1974. Last previous edition approved in 2009 as D0316-09 1001:2009D3176-15.

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 ASTM website.

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and Simulation on FBC Technology Environments and Pollutant Control Sustainable Fuels The proceedings can be served as idea references for researchers engineers academia and graduate students plant operators boiler manufacturers component suppliers and technical managers who work on FBC fundamental research technology development and industrial application

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eBook Chandresh Agrawal, nandini books, 2025-10-29 SGN The Ebook PDF BPSC Bihar Assistant Engineer Mechanical Exam Mechanical Engineering Subject Covers Similar Previous Years Papers With Answers [Ultimate Analysis of Coal](#) British Standards Institution, 1969 **Power Plant Engineering** Farshid Zabihian, 2021-06-27 Our lives and the functioning of modern societies are intimately intertwined with electricity consumption We owe our quality of life to electricity However the electricity generation industry is partly responsible for some of the most pressing challenges we currently face including climate change and the pollution of natural environments energy inequality and energy insecurity Maintaining our standard of living while addressing these problems is the ultimate challenge for the future of humanity The objective of this book is to equip engineering and science students and professionals to tackle this task Written by an expert with over 25 years of combined academic and industrial experience in the field this comprehensive textbook covers both fossil fuels and renewable power generation technologies For each topic fundamental principles historical backgrounds and state of the art technologies are covered Conventional power production technologies steam power plants gas turbines and combined cycle power plants are presented For steam power plants the historical background thermodynamic principles steam generators combustion systems emission reduction technologies steam turbines condensate feedwater systems and cooling systems are covered in separate chapters Similarly the historical background and thermodynamic principles of gas turbines along with comprehensive discussions on compressors combustors and turbines are presented and then followed with combined cycle power plants The second half of the book deals with renewable energy sources including solar photovoltaic systems solar thermal power plants wind turbines ocean energy systems and geothermal power plants For each energy source the available energy and its variations historical background operational principles basic calculations current and future technologies and environmental impacts are presented Finally energy storage systems as required technologies to address the intermittent nature of renewable energy sources are covered While the book has been written with the needs of undergraduate and graduate college students in mind professionals interested in widening their understanding of the field can also benefit from it [Global Environment Research of Japan](#) ,1997 **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 *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 [Handbook of Environmental](#)

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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

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Table of Contents Ultimate Analysis Of Coal Pdf

1. Understanding the eBook Ultimate Analysis Of Coal Pdf
 - The Rise of Digital Reading Ultimate Analysis Of Coal Pdf
 - Advantages of eBooks Over Traditional Books
2. Identifying Ultimate Analysis Of Coal Pdf
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ultimate Analysis Of Coal Pdf
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ultimate Analysis Of Coal Pdf
 - Personalized Recommendations
 - Ultimate Analysis Of Coal Pdf User Reviews and Ratings
 - Ultimate Analysis Of Coal Pdf and Bestseller Lists

5. Accessing Ultimate Analysis Of Coal Pdf Free and Paid eBooks
 - Ultimate Analysis Of Coal Pdf Public Domain eBooks
 - Ultimate Analysis Of Coal Pdf eBook Subscription Services
 - Ultimate Analysis Of Coal Pdf Budget-Friendly Options
6. Navigating Ultimate Analysis Of Coal Pdf eBook Formats
 - ePub, PDF, MOBI, and More
 - Ultimate Analysis Of Coal Pdf Compatibility with Devices
 - Ultimate Analysis Of Coal Pdf Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ultimate Analysis Of Coal Pdf
 - Highlighting and Note-Taking Ultimate Analysis Of Coal Pdf
 - Interactive Elements Ultimate Analysis Of Coal Pdf
8. Staying Engaged with Ultimate Analysis Of Coal Pdf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ultimate Analysis Of Coal Pdf
9. Balancing eBooks and Physical Books Ultimate Analysis Of Coal Pdf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ultimate Analysis Of Coal Pdf
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ultimate Analysis Of Coal Pdf
 - Setting Reading Goals Ultimate Analysis Of Coal Pdf
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ultimate Analysis Of Coal Pdf
 - Fact-Checking eBook Content of Ultimate Analysis Of Coal Pdf
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web eastern lowland gorilla gorilla gorilla graueri is slightly larger in size weighing up to 220 kg 484 lbs and darker in coloration than the western lowland gorilla they live in the rainforests of central africa mountain gorilla gorilla gorilla beringei is the largest and rarest of all three subspecies adult males may weigh over 227 kg

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web the males grow to around 5 ½ feet tall and weigh around 400 pounds the females grow to 4 ½ feet tall and weigh around 200 pounds gorillas have long arms even longer than their legs they use their long arms to knuckle walk this is where they use the knuckles on their hands to walk on all fours

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