

## Astm Standard Coal Analysis

Currently there are two ASTM standard test methods used around the world for the determination of volatile matter in coal. ASTM D3175, , Standard Test Method for Volatile Matter in the Analysis Sample of Coal and Coke, was first published as ASTM D22, -16, Laboratory Sampling and Analysis of Coal, in 1916 and uses a minimum volume vertical furnace. ASTM D7582, , Standard Test Methods for Proximate Analysis of Coal and Coke by Macro Thermogravimetric Analysis, uses a macro thermogravimetric analyzer (TGA) system. Macro TGA systems use samples that are one gram or larger, whereas micro TGA systems use only milligram-size samples. In both test methods, the furnaces are heated to a final temperature of 950 ° C and include a seven-minute hold time before final mass measurements. For nearly four decades, fuel scientists have tried to reconcile the differences between the coal volatile matter yields obtained using either a preheated (950 ° C) minimum volume vertical furnace (ASTM D3175, ) or a TGA system. This article describes experiments designed to help explain the differences in volatile matter yields from coals with the major focus being the moisture content in the samples analyzed. Parameters studied include predrying coal samples, using different heating rates, and using different intermediate temperatures in two-step procedures for the measurements. Factors including the moisture content and plastic behavior of coals, both of which contribute to the differences between the volatile

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matter values determined by different methods, will be discussed.

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

Standard Test Methods for Proximate Analysis of the Analysis Sample of Coal and Coke by Instrumental Procedures

Handbook of Coal Analysis

A.S.T.M. Standards on Coal and Coke ... Sampling Methods, Chemical Analysis, Methods of Testing, Specifications and Classifications, Definitions of Terms

A.S.T.M Standards on Coal and Coke

A compilation of all ASTM standards issued each year.

Gaseous Fuels, Coal and Coke, Atmospheric Analysis

(with Related Information) Sampling Methods, Chemical Analysis, Methods of Testing, Specifications and Classifications, Definitions of Terms

Coal and Coke : Atmospheric Analysis

1979 Annual Book of ASTM Standards

Standard Test Methods for Ash in the Analysis Sample of Coal and Coke from Coal

This test method covers the determination of the inorganic residue as ash in the analysis sample of coal or coke as prepared in accordance with Practice D2013 or Practice D346

Annual Book of ASTM Standards

A.S.T.M. Standard on Coal and Coke (with Related Information)

Gaseous fuels; coal and coke; atmospheric analysis

Standard Test Methods for Sulfur in the Analysis

Sample of Coal and Coke Using High-temperature Tube Furnace Combustion Methods

Sampling Methods, Chemical Analysis, Methods of Testing, Specification and Classifications, Definitions of Terms

*ASTM Standards on Coal and Coke Sampling Methods, Chemical Analysis, Methods of Testing, Specifications and Classifications, Definitions of Terms Handbook of Coal*

*Analysis John Wiley & Sons A.S.T.M. Standards on Coal and Coke With Related Information; Sampling Methods,*

*Chemical Analysis, Methods of Testing, Specifications and Classifications, Definitions of Terms A.S.T.M. Standards on*

*Coal and Coke (with Related Information) Sampling Methods, Chemical Analysis, Methods of Testing, Specifications and Classifications, Definitions of*

*Terms ASTM D317 - 12 Standard Test Methods for Ash in the Analysis Sample of Coal and Coke from Coal*

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

*With Related Information; Sampling Methods, Chemical Analysis, Methods of Testing, Specifications and Classifications, Definitions of Terms*

*A.S.T.M. Standards on Coal and Coke*

*ASTM Standards Part 26*

*Annual Book of A S T M Standards. Part 26. Gaseous*

*Fuels; Coal and Coke; Atmospheric Analysis*