



Designation: D6721 – 24

## Standard Test Method for Determination of Chlorine in Coal by Oxidative Hydrolysis Microcoulometry<sup>1</sup>

This standard is issued under the fixed designation D6721; 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 sign (e) indicates an editorial change since the last revision or approval.

### 1. Scope

1.1 This test method covers the determination of total chlorine in coal with a mass fraction range of 22 mg/kg to 1136 mg/kg.

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

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *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:<sup>2</sup>

D2013 Practice for Preparing Coal Samples for Analysis

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

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

D4621 Guide for Quality Management in an Organization That Samples or Tests Coal and Coke (Withdrawn 2010)<sup>3</sup>

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

E29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

#### 2.2 Other Standards

ISO 5725-6:1994 Accuracy of measurement methods and results—Part 6: Use in practice of accuracy values<sup>4</sup>

### 3. Summary of Test Method

3.1 A 10.00 mg to 40.00 mg sample of coal is combusted with tungsten accelerator in a humidified oxygen gas flow, at 900 °C. Halogens are oxidized and converted to hydrogenated halides, which are flushed into a titration cell where they accumulate. Chlorine is converted to hydrochloric acid. Once the chloride is captured in the electrolyte of the titration cell, it can be quantitatively determined by microcoulometry, where chloride ions react with silver ions present in the electrolyte. The silver ion thus consumed is coulometrically replaced and the total electrical work needed to replace it is proportional to the chloride in the test specimen.

### 4. Significance and Use

4.1 This test method permits measurements of the total chlorine mass fraction in coal.

### 5. Interferences

5.1 Bromides and iodides, if present are calculated as chloride. However, fluorides are not detected by this test method.

### 6. Apparatus

6.1 *Hydrolysis Furnace*, which can maintain a minimum temperature of 900 °C.

6.2 *Hydrolysis Tube*, made of quartz and constructed such that when the sample is combusted in the presence of tungsten accelerator and humidified oxygen, the byproducts of combustion are swept into a humidified hydrolysis zone. The inlet end shall allow for the introduction and advancement of the sample boat into the heated zone. The inlet shall have a side arm for the

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee D05 on Coal and Coke and is the direct responsibility of Subcommittee D05.29 on Major Elements in Ash and Other Elements of Coal.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [www.astm.org/contact](http://www.astm.org/contact). For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The last approved version of this historical standard is referenced on [www.astm.org](http://www.astm.org).

<sup>4</sup> Available from International Organization for Standardization 1 Rue de Vanclém, Case Postale 56, CH-1211, Geneva 20, Switzerland.

# Chlorine In Coal

**Mei-In Melissa Chou**



## Chlorine In Coal:

**Chlorine and Other Halogens in Coal** Robert M. Davidson, 1996      *Chlorine in Coal Combustion* Theresa L. Iapalucci, Richard J. Demski, Daniel Bienstock, 1969      **Standard Method of Test for Chlorine in Coal** ASTM Committee D-5 on Coal and Coke, 1972\*      **Chlorine in Coal** John Stringer, D. D. Banerjee, 1991 The Illinois basin coals have a chlorine content which varies from 0.1% to values in excess of 0.5%. The mean chlorine content of the coal being mined is steadily rising. Customers are already expressing some unease and contracts limiting the chlorine content of coal have been reported. This has potentially significant implications for the industry. The object of this Conference was to attempt to quantify the impact of coal chlorine content on a variety of coal using technologies and to identify new research which is necessary to allow a rational definition of the limits of chlorine content required for each technology. The distribution of chlorine in the Illinois Basin coals was considered and the current state of knowledge of the forms in which the chlorine is present in the coal was reviewed. The release of the chlorine from the coal during its processing and the forms in which it is present in the products was examined. This information permits an assessment of the viability of methods of removing chlorine either in coal preparation or from the post processing products. The effect of chlorine on the coal conversion and combustion processes and on the balance of the plant was reviewed. The most important effects are on the corrosion of construction materials at both high and low temperatures. These proceedings should be of interest to power plant corrosion and chemical engineers and to coal cleaning technologists and researchers.      **Chlorine in Coal Combustion and Cofiring** Robert M. Davidson, 2005

*Chlorine in Illinois Coal* Harold Jay Gluskoter, Orin Wainwright Rees, 1964      **Chlorine in Coal Combustion** Theresa L. Iapalucci, R. J. Demski, D. Bienstock, 1969      **Standard Test Method for Chlorine in Coal**,      Determination of Chlorine in Coal by the High Temperature Combustion Method International Organization for Standardization, 1963      **Coal and coke - Analysis and testing, Part 8: Chlorine in coal and coke**,      **Chlorine in Coal and Its Relationship with Boiler Corrosion** Mei-In Melissa Chou, 1993      *Chlorine in Coal and Its Relationship with Boiler Corrosion* Mei-In Melissa Chou, 1994      **Mineral Impurities in Coal Combustion** Erich Raask, 1985      *Fate of Chlorine in Coal Under Mild Pyrolysis* Zhiyin Zu, 1993      **Behavior of Sulfur and Chlorine in Coal During Combustion and Boiler Corrosion** C.-L. Chou, 1993      *Chlorine in Coal. Proceedings of the International Conference ; 1*, 1991      **Chlorine in Coal and Its Relationship with Boiler Corrosion. Technical Report, 1 March--31 May 1994**, 1994 Limited literature and use history data have suggested that some high chlorine Illinois coals do not cause boiler corrosion while extensive data developed by the British correlate corrosion with chlorine content and other parameters related to the coal and boiler. The differences in corrosivity in coals may be due to the coal properties, to blending of coals or to the boiler parameters in which they were burned. The goals of this study focus on coal properties. In this quarter both destructive temperature programmed Thermogravimetry with Fourier transform infrared TGA FTIR and non destructive X ray absorption near edge structure

XANES techniques were used to examine the forms and the evolution characteristics of chlorine in coals. The TGA FTIR results indicate that under oxidation condition both British and Illinois coals release hydrogen chloride gas. Illinois coals release the gas at high temperature with maximum evolution temperature ranged between 210 and 280 C. The XANES results indicate that chlorine in coal exists in ionic forms including a solid salt form. The solid NaCl salt form however is observed only in some of the British coals and none of the Illinois coals. These results combined with TGA FTIR results suggest that the chlorine ions in Illinois coals are different from the chlorine ions in British coals.

**Chlorine in Coal and Its Relationship with Boiler Corrosion. [Quarterly] Technical Report, December 1, 1993--February 28, 1994**, 1994. Limited literature and use history data have suggested that some high chlorine Illinois coals do not cause boiler corrosion while extensive data developed by the British correlate corrosion with chlorine content and other parameters related to the coal and boiler. The differences in corrosivity in coals may be due to the coal properties to blending of coals or to the boiler parameters in which they were burned. The goals of this study focus on coal properties and are 1 to characterize chlorine and other constituents in coals which have been reported to behave differently with respect to corrosion problems during combustion 2 to determine the evolution profiles of chlorine containing compounds in coals during pyrolysis and oxidation and 3 to examine the behavior of Cl S N O containing compounds in coal during pyrolysis. Proximate ultimate and ash composition analyses for all of the British and Illinois coal samples were completed in this quarter. Analysis of the acid soluble sodium and potassium in coals is in progress. These data along with ash composition data will be used to assess a coal's relative corrosion potential. The HCl evolution profiles obtained from oxidation of the five Illinois coal samples were examined. The results indicate that temperatures of maximum HCl evolution range were 430 C to 450 C.

**Carbonizing Properties of Coals from Nicholas, Randolph, and Webster Counties, W. Va** David E. Wolfson, C. Ortuglio, 1969      The Effect of Chlorine in Coal on Combustion Ash Characteristics and Metal Corrosion William A. Sowa, 1984

## Chlorine In Coal Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Chlorine In Coal**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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