

ICS 73.040
CCS D 21

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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 3596-2013

**Test method for total fluorine in coal by the oxygen bomb
combustion-ion selective electrode method
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: General Administration of Customs

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

The standard reference American Society for Testing Materials Standard ASTM D3761:1996 (2002) "Oxygen Bomb Combustion/Ion Selective Electrode Method Standard Method for Total Fluorine in Coal "(in English).

This standard ASTM D3761:1996 (2002) The main differences are as follows.

--- You will be prompted on security issues (ASTM D3761:1996 in 1.4) on the text of the first.

--- "This test method" be replaced by "of this standard."

--- According to GB/T 1.1-2009 "Standardization Guide Part 1. Standard structure and writing" requirement, the ASTM D3761:1996 (2002) of Chapter 2 to normative references.

--- Delete this standard requires independent technical content, ASTM D3761:1996 (2002) the chapter number 1.3,1.5,4,14.

--- The ASTM D3761. in 71996 (2002) for details about the use of the oxygen bomb warning of the risk in Appendix A.

--- Part precision textual representation according to GB/T 20001.4-2001 standard requirements were modified.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Guangdong CIQ.

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Determination of the import and export of coal in total fluorine content Oxygen Bomb Combustion/Ion Selective Electrode Method Warning. This standard does not mention the use of the same standard for all security issues. Users are responsible before the

application of this standard, to take appropriate Safety and health practices and to ensure compliance with relevant laws and regulations.

1 Scope

This standard specifies the Oxygen Bomb Combustion - Coal method for the determination of total fluorine content of the ion selective electrode method.

This standard is applicable to the determination of total fluorine in coal at 25% or less in ash content.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 474 coal sample preparation GB/T 483 coal analysis test methods - General provisions
GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) -
Part 2. Determine the standard measurement method to repeat of the basic methods of
reproduction Laboratory use specifications and test methods GB/T 6682 Analysis
ASTME144 Safety and Operating Instructions oxygen combustion bomb

3 Method summary

Weigh a certain quality of coal in an oxygen bomb combustion decomposition, absorb fluorine-containing gas with dilute lye, rinsed with water and oxygen bomb, lotions and absorbing liquid Combined, then add citrate buffer, a fluoride ion selective electrode determination of total fluorine content.

4 Instrument

4.1

Oxygen Bomb. made from combustion or combustion products influence the material should be suitable for use in the washing liquid collected quantitative surface burning Combustion Products. Test gas leak can not appear. Oxygen bomb must be able to 20MPa hydrostatic pressure test at room temperature, should be part of any Force must not exceed the elastic limit. The risk of using oxygen bomb prompted see Appendix A.

4.2

Sink. a bomb capable of receiving oxygen and sufficient water containers, water to take the heat release during combustion. The sink sit at design time Taking into account the presence of the oxygen bomb around a constant rate of flow.

4.3

Combustion Crucible. The sample should be in an open platinum, a base metal or alloy produced quartz crucible combustion. The use of base metal alloys After the crucible by making a certain number of pre-combustion stability during the test should not be noticeable quality changes.

4.4

ignition wire. 100mm, nickel chromium alloy or platinum.

4.5

ignition circuit. a 6V ~ 16V AC or DC circuits for ignition, the circuit should be equipped with LEDs to indicate power or ammeter flow. Battery or AC step-down transformer to the lighting circuit.

4.6

Analysis of balance. a sense of the amount of 0.1mg.