

ICS 73.040

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

GB/T 8899-2013

Replacing GB/T 8899-1998

**Determination of maceral group composition and minerals in
coal**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

4 Method summary

5 Apparatus and materials

5.1 reflection polarizing microscope

5.3 Counter

5.4 Sample installation equipment

Foreword

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

This standard replaces GB/T 8899-1998 "microstructure grouping of coal and mineral determination." And GB/T 8899-1998 compared to

The main changes are as follows.

--- Added "Terms and Definitions" chapter.

--- Deleted the "semi-vitrinite" content.

This standard uses redrafted Law Amendment uses ISO 7404-3.2009 "Analysis of coal and rock - Part 3. maceral group consisting of test methods".

This standard and ISO 7404-3.2009, compared with more adjustment in the structure, listed in Appendix A of this standard and ISO 7404-3.2009

The reg number control list.

This standard and ISO 7404-3.2009 as compared to the existence of technical differences, these differences involve the provision has passed the gap in the outside margin

Vertical single-line positions were marked, Appendix B gives a list of corresponding technical differences and their causes.

This standard and ISO 7404-3.2009, compared also made the following editorial changes.

a) use the "standard" instead of "this International Standard";

- b) use a decimal point instead of a decimal comma " , " ;
- c) Remove the foreword and introduction of international standards.

The standard proposed by China Coal Industry Association.

This standard coal by the National Standardization Technical Committee (SAC/TC42) centralized.

This standard was drafted. Coal Science and Industry Group, Xi'an Institute.

1 Scope

This standard specifies the method for determining microstructure grouping of coal (or microscopic component) and the volume fraction of the mineral in reflected polarized light microscopy.

This standard applies to pulverized lignite-ray film, made of bituminous coal and anthracite.

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/T 12937 Rock term coal (GB/T 12937-2008, ISO 7404-1.1994, MOD)

GB/T 15588 Classification bituminous coal Maceral

GB/T 16773 Analysis of coal sample preparation method (GB/T 16773-2008, ISO 7404-2. 1985, MOD)

3 Terms and Definitions

Terms and definitions GB/T 12937 apply to this defined standard.

4 Method summary

Pulverized coal ray reflective polarizer is placed under the microscope in polarized light or not completely orthogonal polarization, to be able to accurately identify the mineral composition and microstructure

Based on the statistics of the microstructure and mineral packets with the volume fraction of the number of point method.

5.1 reflection polarizing microscope

Should the blue filter in the incident path. Dry objective should be $\times 20 \sim \times 50$, oil immersion objective should be $\times 25 \sim \times 60$, eyepiece should

$\times 8 \sim \times 12.5$. Eyepiece should be equipped with micrometer and crosshairs.

Reflection reflection fluorescence polarization microscope equipped with appropriate means.

5.2-foot stage push

In the transverse direction (X) and vertical (Y) on the range of movement of not less than 25mm, and are able to move and other steps.

5.3 Counter

Measuring points were recorded at least eight kinds of ingredients; count should be equipped with computers, and the preparation of the corresponding data processing, report output and other software.

5.4 Sample installation equipment

Slides, clay and leveler.