

ICS 71.100.10

CCS Q 52



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

GB/T 26930.4-2011

**Carbonaceous materials for the production of primary
aluminium -- Pitch for electrodes -- Part 4: Determination of
content of quinoline-insoluble material**

Issued on: September 29, 2011

Implemented on: May 1, 2012

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

Table of Contents

Foreword

1 Scope

2 Normative references

3 PRINCIPLE OF THE METHOD

4 Reagents and materials

4.1 quinoline. AR.

4.2 Toluene. AR.

5 Instruments

5.1 Water bath. capable of temperature control in 70 degrees C ~ 80 degrees C.

5.2 Hattey funnel, funnel or similar. wherein the diameter ≥ 70 mm disc (see Figure 1).

5.3 Filter mat. Diameter ≥ 70 mm, filter out 98% of particles $1.2\mu\text{m}$.

5.4 Oven. Can temperature at 105 degrees C ~ 110 degrees C.

Foreword

GB/T 26930 "carbonaceous materials used in aluminum production bituminous coal" There are five sections.

--- Part 1. Determination of moisture content - Azeotropic distillation method;

--- Part 2. Determination of softening point and ball method;

--- Part 3. Determination of density Pyknometer;

--- Part 4. Determination of quinoline insoluble content;

--- Part 5. Determination of toluene-insoluble matter content.

This is Part 4.

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

This section uses the translation method identical with ISO 6791. 1981 "carbonaceous materials used in aluminum production bituminous coal quinoline insoluble content

Determination. " This part identical with ISO 6791. 1981, the deleted its preamble.

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 26297.5 carbonaceous materials used in aluminum sampling method - Part 5. coal

tar pitch (ISO 6257.2002, MOD).

This section is responsible for drafting unit. Cable-Development Co., Ltd., China Nonferrous Metals Industry Standards Metrology and Quality Institute, Aluminum Corporation of China Ltd. Zhengzhou Research Institute.

Participated in the drafting of this section. Beijing Science and Technology Co., Ltd. British Spike.

1 Scope

This section GB/T 26930 specifies the method for determination of bituminous coal in the production of primary aluminum quinoline insolubles content.

This section applies to the determination of bituminous coal in the production of primary aluminum quinoline insolubles 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, undated references, the latest edition (including any amendments) applies to this document.

ISO 6257 carbonaceous materials used in aluminum bituminous coal sampling method (Carbonaceous materials used in the production of aluminium-Pitch for electrodes-Sampling)

3 PRINCIPLE OF THE METHOD

Within the period prescribed temperature and prescribed by quinoline dissolved sample, extract the quinoline insolubles, filtered and weighed amount of residue, thereby meter Calculated quinoline insolubles content.

4.1 quinoline. AR.

Warning. after inhaling or swallowing risk of poisoning. It can irritate the skin and eyes. Avoid inhalation of vapors and contact with skin, eyes and clothing.

4.2 Toluene. AR.

Warning. Highly flammable, harmful by inhalation; away from sources of ignition, no smoking; not poured into the gutter, take precautions to prevent electrostatic discharge.

4.3 filter aid. diatomite type, does not contain organic compounds, neutral. Particle size range $1\mu\text{m} \sim 40\mu\text{m}$, an average particle size of $6\mu\text{m} \sim 10\mu\text{m}$.

It was prepared according to the following method. at 105 degrees C $\sim$ 110 degrees C in, in an oven (5.4) drying 1h. Cool in a desiccator and weighed. Weighing

Check the difference until two consecutive weighing not more than 0.005g, backup and storage in a desiccator.

chinastandards.org · PREVIEW