

ICS 71.100.10

CCS Q 52



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

GB/T 26930.2-2011

**Carbonaceous materials for the production of primary
aluminium -- Pitch for electrodes -- Part 2: Determination of
softening point by the ring and ball method**

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

4.1 glycerol (AR). for more than a softening point of asphalt 85 degrees C.

5 Instruments

5.1 Global meter apparatus is shown in Figure 1, it consists of the following parts.

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 2.

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

This section uses the translation method identical with ISO 5940. 1981 "Determination of primary aluminum production ring carbon materials the softening point coal tar pitch

Ball Method. " This part identical with ISO 5940. 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 primary aluminum production of coal softening point (softening temperature) measurement method.

This section applies to the determination of primary aluminum production of coal softening point. Measurement range. ≥ 30 degrees C.

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

Samples were prepared using a mold, the prepared sample into the heating tank, and then put a ball on top of the specimen. The sample is heated at a predetermined rate

When sufficiently softened so that, under the weight of the ball, sinking to a predetermined depth of the sample, measurement of the temperature. The temperature is the softening point.

4.1 glycerol (AR). for more than a softening point of asphalt 85 degrees C.

4.2 Water. suitable for a softening point of asphalt at 30 degrees C ~ 85 degrees C of. Distilled water, purity or rather, just after boiling cooling water.

5.1.1 brass copper ring. is shown in Figure 2, the size of the following requirements.

- Depth. 6.4mm $\pm$ 0.1mm;
- Bottom inner diameter. 15.9mm $\pm$ 0.1mm;
- Top inner diameter. 17.5mm $\pm$ 0.1mm;
- Shoulder portion of the outer diameter. 20.6mm $\pm$ 0.1mm;

--- Shoulder lower portion of the outer diameter. 18.5mm +/- 0.5mm.

5.1.4 groove. heat-resistant glass beaker volume of 800mL.

5.1.5 Ring frame. in Figures 1 and 4 bid to understand its shape and size. It consists of two parallel top and bottom of the brass composition, distance between

25mm +/- 0.5mm. Brass plate for supporting the copper ring (5.1.1), a thickness equal to a bottom surface of the ring to the distance between the shoulders. Above-mentioned

Two brass plates are supported by a circular frame, top center, located in the bracket slot bracket have a thermometer. (5.1.6) for a hole.