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

GB/T 26930.3-2011

**Carbonaceous materials for the production of primary
aluminium -- Pitch for electrodes -- Part 3: Determination of
density -- Pycnometric method**

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4.1 ethanol. 95% (volume fraction), AR.

4.2 acetone. AR.

4.3 nonionic wetting agent. 0.1% (mass fraction) solution.

4.4 Chromium sulfur mixture. such as potassium dichromate solution and the like.

5 Instruments

5.1 pycnometer. Volume 50mL (in line with ISO 3507).

5.4 Oven. temperature controlled at 120 degrees C +/- 2 degrees C.

5.5 Water bath. temperature controlled at 25 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 3.

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

This section uses the translation method identical with ISO 6999. 1983 "Determination of carbon material used in the production of primary aluminum bituminous coal density of proportion

Bottle method. " This part identical with ISO 6999. 1983 when it removed the foreword and introduction.

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).

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1 Scope

This section GB/T 26930 specifies the primary aluminum production of coal asphalt pycnometer density determination.

This section applies to the determination of primary aluminum production bituminous coal density pycnometer method.

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 3507 pycnometer (Pyknometers)

Mutual test repeatability and reproducibility of the assay (Precision of test methods accuracy of laboratory test method ISO 5725

Determination of repeatability and reproducibility by inter-laboratory tests)

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

Determination of the density of vacuum degassing treatment at a temperature of 25 degrees C bituminous coal using Pyknometer.

4 Reagents and materials

During the test, only water analytical reagent, distilled water or the same purity to meet the requirements.

5.1 pycnometer. Volume 50mL (in line with ISO 3507).

5.2 pump. equipped with safety valves and filters, power of about 1m³/h, the residual pressure of 3.3kPa.

5.3 airtight container. for-receiving pycnometer (5.1), connected to the separation channel, during the test to maintain a vacuum state, shown in Figure 1.

Warning. When a vacuum, airtight container needs to be placed behind the security screen use.