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**Commercial coal quality -- Coal for entrained-flow
gasification**

商品煤质量 气流床气化用煤

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Commercial coal quality -- Coal for entrained-flow gasification

1 Scope

This document specifies the quality grades, technical requirements, test methods, inspection rules, identification, transportation, and storage of coal for entrained-flow gasification.

This document is applicable to raw coal for entrained-flow gasification in production, processing, storage and transportation, sales, use, and so on.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB/T 211 Determination of total moisture in coal

GB/T 212 Proximate analysis of coal

GB/T 213 Determination of calorific value of coal

GB/T 214 Determination of total sulfur in coal

GB/T 216 Determination of phosphorus in coal

GB/T 219 Determination of fusibility of coal ash

GB/T 474 Method for preparation of coal sample

GB/T 475 Method for manual sampling of commercial coal

GB/T 2565 Determination of grindability index of coal—Hardgrove method

GB/T 3058 Determination of arsenic in coal

GB/T 3558 Determination of chlorine in coal

GB/T 5751-2009 Chinese classification of coals

GB/T 16659 Determination of mercury in coal

GB/T 18856 (all parts) Test methods for coal water mixture

GB/T 19494.1 Mechanical sampling of coal -- Part 1: Method for sampling

GB/T 19494.2 Mechanical sampling of coal -- Part 2: Method for sample preparation

GB/T 25209 Commercial coal marking

GB/T 25214 Determination of total sulfur in coal by IR spectrometry

GB/T 25215 Guide for testing methods of coal water mixture

GB/T 25960 Rules for steam coal blending

GB/T 30732 Proximate analysis of coal -- Instrumental method

GB/T 31087 General technical requirements for impurities control of commercial coal

GB/T 31424 Determination of coal ash viscosity

SN/T 3511 Determination of mercury in minerals. General rules of direct mercury determining with solid injection method

3 Terms and Definitions

There are no terms and definitions that need to be defined in this document.

4 Product quality grade and technical requirements

4.1 General

Coal for entrained-flow gasification is classified into categories by volatile, classified into grades by ash and total sulfur, and expressed in the form of “category + ash grade + total sulfur grade”. At the same time, the technical requirements for the slurry ability of water-coal slurry are proposed for coal used in water-coal slurry gasification.

4.2 Product category

Coal for entrained-flow gasification is divided into 4 categories according to coal type, namely anthracite for entrained-flow gasification, low volatile bituminous coal for entrained-flow gasification, medium-high volatile bituminous coal for entrained-flow gasification, and lignite for entrained-flow gasification; the abbreviated codes are QLQH-WY, QLQH-LVYM, QLQH-MHVYM, QLQH-HM, respectively. The

5 Test methods

5.1 Total moisture

The determination of the total moisture of coal shall be carried out in accordance with GB/T 211.

5.2 Ash and volatile

The determination of ash and volatile of coal shall be carried out in accordance with GB/T 212 or GB/T 30732. The arbitration of the ash of coal shall be performed in accordance with the slow ashing method in GB/T 212.

5.3 Calorific value

The calorific value of coal shall be measured according to GB/T 213.

5.4 Total sulfur

The determination of total sulfur of coal shall be carried out in accordance with GB/T 214 or GB/T 25214 and shall be carried out in accordance with the Eschka method in GB/T 214 during the arbitration.

5.5 Phosphorus content

The determination of phosphorus content in coal shall be carried out in accordance with GB/T 216.

5.6 Chlorine content

The determination of chlorine content in coal shall be carried out in accordance with GB/T 3558.

5.7 Arsenic content

The determination of arsenic content in coal shall be carried out in accordance with GB/T 3058.

5.8 Mercury content

The determination of mercury content in coal shall be carried out in accordance with GB/T 16659 or SN/T 3511.

5.9 Grindability index

The grindability index of coal (Hardgrove method) shall be determined in accordance with GB/T 2565.

6.4 Type inspection

6.4.1 Type inspection shall be carried out in the following cases:

- a) Appraisal of new product design profile and appraisal of trial-batch production definition;
- b) Raw materials, processes, and equipment change during formal production;
- c) During formal production, an inspection shall be carried out every half a year or every batch of raw materials changed;
- d) Production is resumed after batch production had been interrupted and stopped;
- e) The national or local quality supervision and management department proposes type inspection requirements.

6.4.2 Type inspection items shall meet the requirements of Table 4.

6.5 Judgment rules

The quality of coal used for entrained-flow gasification shall be judged according to the provisions in Tables 1~Table 3. When the results of the factory inspection and type inspection meet the requirements, the batch of products shall be judged as qualified.

7 Identification, transportation, and storage

7.1 Identification

7.1.1 The commercial coal produced and sold shall be marked according to the provisions of GB/T 25209.

7.1.2 The accompanying documents for the circulation of coal marked as commercial shall include but not be limited to the following:

- Product name;
- Quantity;
- Place of origin;

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