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**Commercial coal quality - Civil briquette**

商品煤质量 民用型煤

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# Commercial coal quality - Civil briquette

## 1 Scope

This standard specifies the terms and definitions, raw material requirements, product classification, requirements and test methods, inspection rules, as well as packaging, marking, transportation and storage of civil briquettes.

This standard applies to all aspects of production, processing, storage, transportation, sales and use of civil briquettes.

## 2 Normative references

The following documents are essential for the application of this document. For any dated referenced document, only the dated version applies to this document. For any undated referenced document, the latest version (including all amendments) applies to this document.

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 474 Method for preparation of coal sample

GB/T 483 General rules for analytical and testing methods of coal

GB/T 3058 Determination of arsenic in coal

GB/T 3558 Determination of chlorine in coal

GB/T 4633 Determination of fluorine in coal

GB/T 16659 Determination of mercury in coal

GB/T 25209 Commercial coal marking

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

GB/T 30732 Proximate analysis of coal by instrumental method

GB/T 31356 Quality evaluation and control guide for commercial coal

MT/T 1 Determination of refuse-content and undersize fraction of commercial coal

MT/T 748 Determination of cold compressive strength of industrial briquette

MT/T 925 Drop shatter test of industrial briquette

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

### **3 Terms and definitions**

The terms and definitions defined in GB/T 483, GB/T 31356, MT/T 748 and the following apply to this document. For ease of use, some terms and definitions in GB/T 483-2007, GB/T 31356-2014, and MT/T 748-2007 are repeated below.

#### **3.1 commercial coal**

Coal products that are sold after processing raw coal. They can be divided into categories such as steam coal, metallurgical coal, and chemical coal.

[GB/T 31356-2014, definition 3.1]

#### **3.2 steam coal**

Coal products whose calorific value is utilized through combustion are collectively referred to as steam coal. Steam coal can be categorized by use as coal for power generation, coal for industrial boilers and kilns, and other coal products used for combustion.

[GB/T 31356-2014, definition 3.3]

#### **3.3 civil coal**

The steam coal that is used for decentralized cooking and heating by residents. It can be divided into two categories: civil bulk coal and civil briquette.

#### **3.4 civil bulk coal**

Unprocessed and unformed civilian coal.

#### **3.5 civil briquette**

The civil coal that is shaped by appropriate technology and equipment, including honeycomb briquette and other briquettes.

### **3.6 cold compressive strength**

The crack resistance strength of briquettes when they are subjected to a unidirectional force at a specified uniform displacement speed on a pressure testing machine at ambient temperature until cracking occurs is called cold compressive strength.

[MT/T 748-2007, definition 3.2]

### **3.7 shatter strength**

A measure of resistance to crushing. It is expressed as the percentage of the mass of briquette pieces larger than 13 mm to the mass of the original test briquette after a certain amount of briquette sample is dropped freely from a certain height according to specified conditions and methods.

### **3.8 undersize fraction**

The mass fraction of the product above the sieve that is smaller than the specified lower limit of particle size.

[GB/T 483-2007, definition 3.2.37]

## **4 Raw material requirements**

The raw materials for civil briquettes are anthracite, bituminous coal, and other coal products, such as semi-coke. Low-quality and inferior coal, such as lignite, middling, and coal slime, is prohibited from being used as raw materials for civil coal.

## **5 Product categories**

Civil briquette includes honeycomb briquette and other briquette. Honeycomb briquette is divided into two categories based on its quality indexes: honeycomb briquette No. 1 and honeycomb briquette No. 2; other briquette is divided into two categories based on their quality indexes: briquette No. 1 and briquette No. 2.

## **6 Requirements and test methods**

**6.1** Various auxiliary materials and additives used in the processing of honeycomb briquette and other briquettes shall be non-toxic, harmless and odorless, and shall not cause secondary pollution during the use of briquettes.

**6.2** The technical requirements and test methods for honeycomb briquettes are shown in Table 1.

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