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

GB/T 3715-2022

Terms relating to properties and analysis of coal

Issued on: July 11, 2022

Implemented on: November 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document replaces GB/T 3715-2007 "Terminology related to coal quality and coal analysis". Compared with GB/T 3715-2007, except for structural adjustment

In addition to editorial changes, the main technical changes are as follows.

a) Added the terms "civilian coal", "civilian bulk coal", "metallurgical coal", "civilian briquette", "industrial briquette", "blue carbon", "fuel coal-water slurry"

"gasified coal-water slurry", "coke", "formed coke", "casting coke", "metallurgical coke" and their definitions (see 3.1.29~3.1.31, 3.1.34.1,

3.1.34.2, 3.1.35, 3.1.36.1, 3.1.36.2, 3.1.39, 3.1.41~3.1.43);

b) Changed the definitions of the terms "coal", "raw coal", "raw coal", "commercial coal", "clean coal", "slime" and "coal water slurry" (see 3.1.1, 3.1.3~3.1.5,

3.1.8, 3.1.11, 3.1.36, 2.1.1, 2.1.3~2.1.5, 2.1.7, 2.1.10, 2.1.35 of the.2007 edition), changed coal and its products

The term "coal slurry" means "coal slurry water", "gangue" means "coal gangue", and "thermal coal" means "thermal coal" (see 3.1.12, 3.1.26,

3.1.28, 2.1.11, 2.1.27, 2.1.30 of the.2007 edition);

c) Deleted the term "cleaned coking coal for smelting" and its definition (see 2.1.31 of the.2007 edition);

d) The terms "production coal seam profile coal sample", "grooved coal sample", "coal core coal sample", "air-dried coal sample", "particle size analysis coal sample", "coal sample" were added.

Coal rock sample of whole layer", "layered coal rock sample", "mass coal seam sample", "coal seam columnar sample", "commercial coal rock sample", "coal standard material/

Coal standard sample", "continuous sampling", "intermittent sampling", "double sampling", "online sample preparation", "offline sample preparation", "chessboard reduction method" and its determination

Meaning (see 4.1.4~4.1.6, 4.1.13, 4.1.15~4.1.21, 4.1.25, 4.1.26, 4.1.30, 4.1.41, 4.1.42, 4.1.48);

e) The definitions of the terms "coal seam sample" and "production coal sample" have been changed (see 4.1.2, 4.1.8, 3.1.14 and 3.1.17 of the 2007 edition);

f) Changed the term and its definition "coal reference material" to "certified coal reference material/coal reference sample" (see 4.1.22, 2007 edition of 3.1.24);

g) Added the terms "air-dry moisture", "sulfur emission", "combustible sulfur", "emissionable sulfur content of coal combustion", "effective sulfur solid rate", "cartridge calorific value"

"Constant volume high calorific value", "Constant volume low calorific value", "Constant pressure low calorific value", "Golden coke type", "Slagging rate", "Dynamic viscosity", "Lin Boundary viscosity", "sieving test", "large sieving", "small sieving", "floating and sinking test", "large floating and sinking", "small floating and sinking", "microcomponent", "microcomponent"

Group", "Vitrinite", "Inertinite", "Crustinite", "Microscopic Coal Rock Type", "Microscopic Mineralization Type", "Microscopic Mineral Type", "Reflectivity", "Mirror"

"Maximum reflectance of plastid", "Random reflectance of vitrinite", "Distribution of reflectance of vitrinite", "Reflectance standard material", "Coke reaction"

properties", "strength after coke reaction", "coke porosity", "mechanical strength", "crushing strength", "abrasion strength" and their definitions (see 4.2.6,

4.2.25~4.2.28, 4.2.38~4.2.41, 4.2.58, 4.2.64, 4.2.74~4.2.81, 4.2.103~4.2.110, 4.2.112~4.2.117);

h) Changed the definitions of the terms "gangue content", "slagging", "coal water slurry concentration" and "coal water slurry apparent viscosity" (see 4.2.35, 4.2.63, 4.2.100, 4.2.101, 2.1.29, 3.2.51, 3.2.79, 3.2.80 of the 2007 edition);

i) Changed the "terms for bases in coal quality analysis results" to "terms for coal quality analysis results" (see 4.3, 2007 edition of the 3.3);

j) Added the terms "coal water slurry base", "error", "variance", "standard [deviation]", "random error", "accuracy", "correctness" and "precision"

"Repeatability limit", "Reproducibility limit", "Inspection value", "Report value", "Quality index tolerance", "Sampling base" and their definitions (see 4.3.8~4.3.21);

k) Added the terms "commercial coal label", "commercial coal label", "coal blending ratio", "coal-based associated oil shale oil" and "circular economy in coal mining areas"

"Resource comprehensive utilization index" and its definition (see 5.3, 5.4, 5.9, 5.19, 5.22, 5.23);

l) Changed the definitions of the terms "clean coal technology", "coal preparation" and "coalbed methane" (see 5.2, 5.5, 5.18, 2007 edition 4.1, 4.3, 4.28);

m) Changed the terms and definitions, "coal screening" is "screening" (see 5.6, 4.4 of the 2007 edition);

n) The terms "coking coal blending", "coal chemical conversion", "low temperature dry distillation", "moving bed gasification", "fluidized bed gasification", "entrained bed gasification" are deleted

"Fused bed gasification", "coal liquefaction", "coal direct liquefaction", "coal indirect liquefaction", "coal-oil co-refining", "coal-derived gas", "circulating fluidized bed"

Combustion", "pressurized fluidized bed combustion", "gas purification", "flue gas purification", "flue gas desulfurization" and their definitions (see 4.8 of the 2007 edition, 4.12, 4.15, 4.17~4.24, 4.27, 4.30, 4.31, 4.33~4.35).

This document was drafted with reference to ISO 1213-2:2016 Terminology for solid fossil fuels - Part 2: Terminology for sampling, testing and analysis, consistent with

The degree of sexuality is not equivalent.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document defines terms and their English translations, definitions and symbols related to coal quality, coal analysis and coal processing and utilization.

This document applies to relevant standards, documents, teaching materials, books and manuals.

2 Normative references

There are no normative references in this document.

3.1 Coal and its product terms

3.1.1

coal coal

coal

Carbon-rich solid combustible organic sedimentary rock mainly transformed from plant remains through coalification, containing a certain amount of minerals, corresponding to

The ash yield is less than or equal to 50% (dry basis mass fraction).

Note 1. Usually in the process of geological coalification, when the total water content drops to 75% (mass fraction), the peat is converted into coal; while in the normal coalification process, there is no interference

The upper limit of the conversion of coal seam to half graphite is that the average random reflectance R_{ran} of vitrinite is 6.0%, or, the average maximum reflectivity R_{max} of vitrinite is 8.0% is better for its upper limit. For climacteric contact metamorphic coal seams, the upper limit of R_{max} can exceed 10%. See ISO 11760 for the above notes.

Note 2. At present, the upper limit of coal ash content used in the calculation of coal reserves in China is 40%.

[Source. GB/T 5751-2009, 3]

3.1.2

coal equivalent coalequivalent

standard coal

A unified unit of measure for energy. Any energy that can generate a low calorific value of 29.27MJ can be converted into a 1kg coal equivalent value.

3.1.3

ROMcoal runofmine; ROMcoal

Coal produced directly from coal mines without any screening, crushing and sorting.

[Source. GB/T 7186-2008, 3.1.2]

3.1.4

raw coal