

ICS 73.040
CCS D 20



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

GB 25960-2010

Rules for steam coal blending

动力配煤规范

(English Translation)

Issued on: January 10, 2011

Implemented on: June 1, 2011

Issued by: Standardization Administration of China

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Foreword

4.2.3,4.2.5,4.3,6.1,6.2 this standard is mandatory, the rest are recommended.

Appendix A of this standard is a normative appendix.

The standard proposed by China Coal Industry Association.

This standard by the National Standardization Technical Committee of Coal.

This standard was drafted. Coal Research Institute Beijing Coal Chemical Research Branch, Shanxi Coal Transportation and Marketing Group Co., Ltd., Beijing Shenhua Chang Yun blending high-tech Co., Ltd., China University of Mining (Beijing).

Introduction

Blending power is defined according to the needs of industrial production, mixing several different quality coal uniformly together to give a new Coal products to meet all kinds of boilers or furnaces specified requirements. Blending power use help to improve combustion efficiency and reduce pollutants Emissions, promote the comprehensive utilization of coal resources.

This standard of power coal blending technology development, production status and market demand for trade as the main basis, taking full account of the variety of use Uses of

steam coal blending quality. The development of standards is of great significance for promoting the development of power coal blending technology, improve the management level, can as steam coal blending quality control and regulate power blending market guidance.

Blending power specification

1 Scope

This standard specifies the quality requirements of raw materials blending power, coal blending and product quality requirements of steam coal blending.

This standard applies to utility boilers, industrial boilers, industrial furnaces, etc. used in production, quality control and sale of steam coal blending product.

This standard does not apply to coal gangue power plant.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 474 coal sample preparation GB 475 coal samples of goods taken by artificial methods
GB/T 5751 Chinese coal classification GB/T 7562 power pulverized coal boiler technology
Condition GB/T 7563 Technical condition of coal for cement rotary kiln GB/T 15224.1 coal
quality - Part 1. Ash GB/T 15224.2 coal quality - Part 2. sulfur GB/T 15224.3 coal quality -
Part 3. heat GB/T 18342 Stoker Technical condition of coal GB/T 18666 commercial coal
quality sampling and inspection methods GB/T 19494.1 coal mechanization sampling - Part
1. Sampling GB part/T 19494.2 coal mechanization sampling 2. Preparation of coal sample

3 Terms and Definitions

The following terms and definitions apply to this standard.

Coal coal

coal

Mainly from plant remains through coalification turned into a solid combustible organic carbon-rich sediments, a certain amount of minerals, corresponding the ash content of less than or equal to 50% (dry mass).

[GB/T 5751-2009, Definition 3.1].

Coal fuel coal; steam coal to take advantage of the calorific value of coal by burning coal known as thermal coal. Mainly for power generation pulverized coal boilers, industrial boilers and industrial furnaces and the like.

Steam Coal Blending According to the needs of industrial production, according to scientific calculations or blending ratio by the combustion test obtained in which two or more different quality thermal coal Mixed together or with the additive according to the environmental needs of the production process of a new thermal coal product uniformly.

Steam coal blending product steam coal blending products A mixture of coal products produced according to a certain target depending on the quality of coal.

Blending ratio coal blending ratio Various quality coal blending ratio scores.

Product quality steam coal blending target quality target of steam coal blending product Coal quality index value steam coal blending product to be achieved in order to calorific value of coal, sulfur and volatile into the main reference index.

Product quality steam coal blending theoretical value quality computation of steam coal blending product by blending various coal quality index value than the calculated power blending products.

Blending quality Found quality determination of steam coal blending product the actual measured value of power coal quality blending product.

4.1 Dynamic blending raw materials

Dynamic blending raw materials of anthracite, bituminous coal, lignite, coal preparation by-products and ABSORBENTS (or Combustion).

4.2 feedstock for steam coal blending shall comply with the requirements of

4.2.1 Dynamic blending raw coal coal category by GB/T 5751 regulations division, according to the quality of GB/T 15224.1, GB/T 15224.2, GB/T 15224.3 specified partition.

4.2.2 Different types of coal coal match, volatile (Vdaf) not too much difference. As any two raw coal volatile matter (Vdaf) value A difference of more than 15.00%, burning test should be conducted in sales should indicate the origin of the raw coal, coal types and blending ratio.

4.2.3 anthracite and lignite should match.

4.2.4 bituminous coal and lignite match in the lignite should be noted sales of blending ratio and volatile (Vdaf) value.

4.2.5 Dynamic blending process equipment should not be added to the corrosive effect of coal substance, such as sodium chloride, nitrate and the like.

4.2.6 Coal Blending To add desulfurization agent in the boiler and furnace design

temperature should be greater than the maximum sulfur capture efficiency of 38%.

4.3 is not available as a power blending solid material feedstock.

4.3.1 various gangue.

4.3.2 coke powder. volatile (Vdaf) less than 2.5%.

4.3.3 pollution or damage to the equipment of coal waste and other substances.

5.1 Basic requirements

Blending power production before proceeding to develop a scientific, optimization of steam coal blending.

5.2 Steam coal blending main content

5.2.1

Dynamic blending of raw materials, including coal and other raw materials and additives, quality indicators, origin and cost information.

5.2.2

Dynamic blending target, including steam coal blending product quality and cost target.

5.2.3 Dynamic blending ratio calculation and determination

5.2.3.1

When two coals to match, blending ratio calculated based on the target coal and raw coal quality data.

5.2.3.2

When three or more matching coal, coal blending ratio calculated based on the target and other constraints, the specific calculation in Appendix A of the strip.

5.2.3.3

In determining the blending ratio of the main indicators of steam coal blending products (heat and sulfur) and the theoretical value of steam coal blending target should Have the right amount of room that the heat of steam coal blending product should be higher than the target, while steam coal blending product of sulfur below the target.

5.2.3.4

Dynamic blending product ash fusion temperature of the theoretical value for reference only, the need for laboratory verification.