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

GB/T 24241-2009

**Direct reduced iron -- Determination of the tumble and abrasion
indices of hot briquetted iron (HBI)**

直接还原铁 热压铁块转鼓和耐磨指数的测定

(English Translation)

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Foreword

This standard is equivalent to international standards ISO 15967:2007 "DRI hot briquette iron drum and abrasion index determination" (English Version).

For ease of use, this standard has been modified following editorial and non-technical difference of.

--- "This International Standard" by "this standard";

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Delete foreword international standards;

--- References modify the corresponding national standards;

--- Rearrange the picture number and location;

--- According to the actual situation, an increase in 7.2 rubber door seal drum material;

--- 8.2 will tumble index and abrasion index is calculated in units of g to kg;

--- Chapter 9 test reports changed to Chapter 10, also made a non-technical content changes.

Appendix A of this standard is a normative appendix.

The standard proposed by China Iron and Steel Association.

This standard by the National Standardization Technical Committee of the reduced iron ore and direct.

1 Scope

This standard provides an evaluation of DRI impact resistance and abrasion resistance methods.

This standard specifies the method for determination of the hot briquette iron (HBI) tumble index and abrasion index.

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/T 6003.1 woven wire mesh test sieve (GB/T 6003.1-1997, eqvISO 3310-1.1990) GB/T 6003.2 Test sieves of perforated metal plate (GB/T 6003.2-1997, eqvISO 3310-2.1990) GB/T 20565 term iron ore and direct reduced iron (GB/T 20565-2006, ISO 11323:2002, IDT) ISO 10835 DRI and hot briquette iron sampling and sample preparation methods

3 Terms and Definitions

The standards adopted GB/T 20565 in the terms and definitions.

Principle 4

The test sample in a circular drum, to 25r/min rotation speed of 200 rpm. Test samples with 6.30mm and after the drum test Square hole sieve 500μm were sieved. After the drum index of particle size greater than 6.30mm drum test sample mass fraction of said wear means with the number of particle size less than 500μm drum after the test sample mass fraction representation.

5.1 Sampling and sample preparation

Sampling and sample preparation is carried out in accordance with ISO 10835.

Dried samples requires at least 70kg.

Samples at 105 °C ± 5 °C oven drying to constant weight, and then cooled to room temperature.

Note: If two consecutive dry sample varies no more than 0.05% by mass of the original sample is considered state of the sample constant weight is reached.

Test sieve 40mm manual screening of samples discarded less than 40mm of section.

5.2 Preparation of test sample

The test sample paved rectangle layer on a smooth flat.

Test samples were randomly taken from the sample, to be prepared at least four test samples of about 15kg, followed by the test sample into the four containers.

The test sample was weighed, testing whether it satisfies the requirements of $15\text{kg} \pm 0.5\text{kg}$. If the test sample does not reach the quality of $15\text{kg} \pm 0.5\text{kg}$ Requirements, should come up with the remaining test sample piece of iron added to the test sample, or to come up with one piece of iron from the test sample and discard until trial Test sample quality to meet the requirements. Record of each test sample quality.

GB/T 24241-2009/ISO 15967:2007