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

GB/T 30046.3-2013

Froth flotation testing -- Part 3: Release evaluation

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Foreword

GB/T 30046 "pulverized coal (mud) flotation test" is divided into three parts.

--- Part 1. test procedure;

--- Part 2. Test method for evaluating the order;

--- Part 3. Release evaluation test methods.

This section GB/T Part of 330,046.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.2-2009 given.

This part redrafted Law Amendment uses ISO 8858-3.2004 "hard coal froth flotation testing - Part 3. Evaluation of the release."

This part of ISO 8858-3.2004, compared with more adjustment in the structure, listed in Appendix A of this part and ISO 8858-3.2004

The reg number control list.

Technical differences exist compared to 2004, the terms of these differences has been involved through its outer margins. This part of ISO 8858-3

Vertical single-line position (I) have been marked, in Appendix B gives the corresponding list of technical differences and their causes.

This section also made the following editorial changes.

--- Name to "pulverized coal (mud) flotation testing - Part 3. Release evaluation test method";

--- Remove the ISO 8858-3.2004 Foreword;

--- The ISO 8858-3.2004 Introduction Introduction The conversion of this Part;

--- Added Appendix A and B;

--- Added Appendix C.

This part is proposed by the China Coal Industry Association.

This part of the National Coal Standardization Technical Committee (SAC/TC42) centralized.

This section is drafted. Tangshan Coal Science Research Institute, the world (Tangshan) Co., Ltd. Mining.

Introduction

Flotation is widely used in pulverized coal (mud) sorting, GB/T 30046.1 provides for pulverized coal (mud) flotation process.

This section provides determine pulverized coal (mud) under certain conditions of Test Method float. Method of controlling the use of clean coal foam recycling of

Flotation process certain degree of restriction, in order to determine pulverized coal (mud) flotation make the minimum dosage and inflatable flotation reaction amount of test

The results can be used to guide the research and production.

Pulverized coal (mud) flotation

Part 3. Test methods for evaluation of release

1 Scope

GB/T 30046 provisions of this part of the principle of pulverized coal (mud) release evaluation test methods, flotation agent, coal, test equipment and appliances

(Goods), test conditions, test procedures and test tolerance test report.

This section applies to bituminous coal and anthracite.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein

Member. For undated references, the latest edition (including any amendments) applies to

this document.

GB 474 coal sample preparation method (GB 474-2008, ISO 18283.2006, MOD)

GB/T 4757 pulverized coal (mud) Standard Test Method for Laboratory flotation unit

GB/T 30046.1 pulverized coal (mud) Part 1 flotation test procedure

Principle 3

Flotation tests conducted in two phases. the first phase of the flotation agent is added to adjust the amount of the second phase of the inflatable flotation adjustment amount, the use of test results

Plotted yield - ash curve.

4.1 Collector

N-dodecyl, AR, density 0.748g/cm³ ~ 0.751g/cm³.

4.2 frother

4-methyl-2-pentanol [methyl isobutyl carbinol (MIBC)], AR, density 0.807g/cm³.

5.1 pulverized coal

Pulverized coal sample and preparation should be performed in accordance with the GB 474 and GB/T 4757 standards, coal particle size limit is 0.5mm.

Coal quality test sample should be no less than 2kg.

5.2 coal slurry

No collected from Coal flotation flotation feed, dried to air-dried state, the quality of not less than 2kg. Also can be directly mine

Coal slurry preparation of a concentration of the test requirements.