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Replacing GB/T 32965-2016

Technical specification for processing and metal recovery of steel slag

钢渣加工和金属回收技术规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

This document replaces GB/T 32965-2016 "Technical Specification for Metal Recovery and Treatment in Steel Slag". Compared with GB/T 32965-2016, except for...

Aside from structural adjustments and editorial changes, the main technical changes are as follows.

a) The scope has been changed (see Chapter 1, Chapter 1 of the 2016 edition);

b) Terms and definitions have been changed (see Chapter 3, Chapter 3 of the 2016 edition);

c) General requirements have been added (see Chapter 4);

d) The principle and process of the dry process for steel slag have been modified (see 5.2, 4.1 and 4.2 in the 2016 version);

e) The principles and process flow of wet treatment have been removed (see sections 5.1 and 5.2 of the 2016 edition);

f) Increased automation requirements (see Chapter 6);

g) Changes were made to the steel slag processing and metal recycling processes (see Chapter 7, 5.3 of the 2016 edition);

h) Requirements for recycled metal products have been added (see Chapter 7);

i) Increased material storage and transportation (see Chapter 8);

j) The determination of total iron content in magnetically separated powder has been added (see Appendix A);

k) The determination of total iron content in slag steel has been added (see Appendix B).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Iron and Steel Association.

This document is under the jurisdiction of the National Steel Standardization Technical Committee (SAC/TC183).

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The previous versions of this document and the document it replaces are as follows.

- First published in 2016 as GB/T 32965-2016;

- This is the first revision.

1 Scope

This document specifies the general requirements, processes and equipment, automation requirements, metal recycling product requirements, and material requirements for steel slag processing and metal recycling. Storage and transportation.

This document applies to desulfurization slag from molten iron pretreatment, converter steel slag, electric arc furnace steel slag, and refining casting residue (excluding stainless steel slag).

2 Normative references

GB/T 208

GB/T 8170

GB/T 10322.1

GB 12348

GB 28664

GB/T 30897

GB/T 30898

3 Terms and Definitions

The terms and definitions defined in YB/T 804 and the following terms and definitions apply to this document.

3.1 steel slag processing

The process of separating cold steel slag into slag steel, magnetic powder and tailings through crushing, screening and magnetic separation.

3.2 steel slag tailings

The residue after steel slag has been processed and metals have been recycled.

4 General Requirements

4.1 Steel slag processing and metal recycling should adhere to the principles of safe production, environmental protection, and resource utilization of solid waste, and adopt advanced and feasible methods.

An economical, environmentally friendly, and energy-saving treatment process.

Pollution prevention measures should be taken, such as preventing dust, runoff, and leakage.

4.3 The noise level at the boundary of the steel slag processing and metal recycling production line (hereinafter referred to as the steel slag processing line) shall meet the requirements of GB 12348.

4.4 Desulfurization slag from molten iron pretreatment, converter slag, electric arc furnace slag, and refining casting residue should be temporarily stored separately. Steel slag tailings should be piled up and stored separately.

Store them for easy classification and utilization.

4.5 Desulfurization slag from molten iron pretreatment, converter slag, electric arc furnace slag, and refining casting residue should preferably be processed on separate slag processing lines. If the same steel...

For slag processing lines, it is advisable to feed and process materials in different time periods.

4.6 Dust removal measures should be installed in areas where dust is generated during steel slag processing lines. The emission concentration limits for air pollutants should comply with the requirements of GB 28664.

The dust concentration at the workplace must comply with GB 28664 regarding fugitive particulate matter emissions from production workshops with or without complete factory buildings.

Concentration limit requirements.