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

GB/T 4009-2008

Replacing GB/T 4009-1989

Chromium silicon

硅铬合金

(English Translation)

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Foreword

This revised standard adopts ISO 5449. 1980 "SILICOCHROMIUM --- specifications and delivery conditions" (in English).

This standard is based on ISO 5449. 1980 re-drafted. For ease of comparison, listed in Appendix A of this standard and reg number ISO 5449. 1980 reg control list numbered.

Taking into account China's national conditions, the use of this standard in the ISO 5449. 1980 when modified. The technical differences between a single vertical line identification They are involved in terms of margin. In Appendix B gives a list of the technical differences and the reasons for the reference.

For ease of use, the ISO 5449. 1980, this standard also made the following editorial changes.

--- The "this International Standard" be replaced by "this standard";

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

--- Delete ISO 5449. 1980 Foreword.

This standard replaces GB/T 4009-1989 "SILICOCHROMIUM." this standard and GB/T 4009-1989 comparison, the main changes are as follows.

--- Increasing the standard preface;

--- Increasing the normative references;

--- Adjust the presentation of the group batches;

--- Increased in Appendices A and B.

Appendix A of this standard and Appendix B is an informative annex.

The standard proposed by China Iron and Steel Association.

This standard by the National Standardization Technical Committee of pig iron and ferroalloy.

This standard was drafted. China Steel Group Co., Ltd., Metallurgical Industry Information Standards Institute Jilin Ferroalloy.

1 Scope

This standard specifies the technical requirements for silicon-chromium alloy, test methods, inspection rules and packaging, storage and transportation, marking and certification.

This standard applies to steelmaking and casting as a reducing agent and an alloying agent, as a reducing agent refining ferrochrome silicon chromium alloy.

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.

General provisions GB/T 3650 inspection, packing, storage and transportation, marking and certification of GB/T 4010 alloy chemical analysis and preparation of samples (GB/T 4010-1994, neq ISO 4552. 1987) Determination of GB/T 4699.2 ferrochromium and silicon chromium alloy chromium content of ammonium persulfate oxidation titration and potentiometric titration (GB/T 4699.2-2008, ISO 4140. 1979, MOD) GB/T 4699.3 chromium iron, chrome and silicon nitride ferrochrome Determination of phosphorus content by bismuth phosphomolybdate blue spectrophotometric method and the molybdenum blue spectrophotometric DEGREE GB/T 4699.4 ferrochrome, chrome silicon carbon content - Infrared absorption method and gravimetric method GB/T 4699.6 ferrochrome, chrome silicon sulfur content - Infrared absorption method and combustion titration method GB/T 5687.2 ferrochrome, chrome and determination of silicon nitride ferrochrome silicon content of perchloric acid dehydration gravimetric method (GB/T 5687.2-2007, ISO 4158. 1978, MOD) GB/T 13247 ferroalloy product size sampling and detection methods (GB/T 13247-1991, neq ISO 4551. 1987)

3.1 Grades and chemical composition

3.1.1

SILICOCHROMIUM by silicon and chromium and impurity content, divided into five grades, chemical composition shall comply with the requirements in Table 1.

Table 1 Grades and chemical composition

Trademark

Chemical composition (mass fraction) /% Si Cr C I II not less than Not more than

FeCr30Si40-A 40.0 30.0 0.02 0.02 0.04 0.01 FeCr30Si40-B 40.0 30.0 0.04 0.02 0.04 0.01

FeCr30Si40-C 40.0 30.0 0.06 0.02 0.04 0.01 FeCr30Si40-D 40.0 30.0 0.10 0.02 0.04 0.01

FeCr32Si35 35.0 32.0 1.0 0.02 0.04 0.01 3.1.2 demand side of Table 1, the chemical composition or arsenic, antimony, bismuth, tin, lead elements have special requirements, be negotiated by both parties.

3.2 Size

3.2.1

silicon chromium alloy with bulk or granular delivery, the size requirements should be consistent with the provisions of Table 2.