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

GB/T 3282-2012

Replacing GB/T 3282-2006

Ferrotitanium

钛铁

(English Translation)

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Foreword

This standard rule according to GB/T 1.1-2009 given draft.

This standard replaces GB/T 3282-2006 "titanium-iron." the main changes in the standard of GB/T 3282-2006 compared as follows.

--- The FeTi50-A, FeTi50-B, FeTi60-A, FeTi60-B, FeTi70-C, FeTi80-A, FeTi80-B and eight FeTi80-C Grades inclusion criteria;

--- Modified FeTi30-B, the carbon content FeTi40-B and FeTi70-C grade product requirements;

--- Modified silicon FeTi70-B and FeTi70-C grade products, aluminum content requirements;

--- Modified FeTi30-B, phosphorus content FeTi40-B grade product requirements;

--- Modified sulfur content FeTi70-B grade product requirements;

--- Modified FeTi30-A, manganese, copper content FeTi40-B and FeTi50-B grade product requirements;

--- Modify the product size requirements.

This revised standard adopts the International Standard ISO 5454. 1980 "Ferrotitanium specifications and delivery conditions" (in English).

This standard is based on ISO 5454. 1980 redrafted listed in this standard reg numbers in Appendix A and ISO 5454. 1980 chapter Article number of the control list.

Adopting ISO 5454. 1980, the present standard do some modifications relating to technical differences have been incorporated into the text in which they are involved.

Terms of the margin with a single vertical line identified in Appendix B gives a list of these technical differences and the reasons for the reference.

For ease of use, ISO 5454. 1980, this standard also made the following editorial changes.

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

--- By decimal points instead of ISO 5454. 1980 for use as a decimal point, "";

--- Remove ISO 5454. 1980 Foreword.

The standard proposed by China Iron and Steel Association.

This standard by the national pig iron and ferroalloy Standardization Technical Committee (SAC/TC318) centralized.

This standard was drafted. Pangang Group Steel Vanadium Titanium Co., Panzhihua City Industry and Trade Co., Ltd. Jiang Jinyong silver, vanadium country Titanium Products Quality Supervision and Inspection Center (chips), Metallurgical Industry Information Standards Institute.

1 Scope

This standard specifies the requirements of ilmenite, test methods, inspection rules and packaging, storage and transportation, marking and certification.

This standard applies to steel or titanium alloy material as an additive element and electrode coatings of ilmenite.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 3650 inspection, packing, storage and transportation, marking and certification of general provisions GB/T 4010 ferroalloy chemical analysis and preparation of samples (GB/T 4010-1994, neqISO 4552.1. 1987, ISO 4552.2. 1987) GB/T 4701.1 Determination of titanium ilmenite ferric ammonium sulfate titration GB/T 4701.2 Determination of silicon content ilmenite sulfuric acid dehydration gravimetric method Determination of copper reagent method and the flame atomic GB/T 4701.3 titaniferous copper content Absorption Spectrometry GB/T 4701.4 Determination of manganese content ilmenite arsenite nitrite titration and periodate spectrophotometry GB/T 4701.6 ilmenite aluminum content - EDTA titration GB/T 4701.7 Determination of phosphorus content ferrotitanium bismuth phosphomolybdate blue spectrophotometric method and the molybdenum blue spectrophotometric method GB/T 4701.8 ilmenite carbon content - Infrared absorption method GB/T 4701.10 ilmenite sulfur content - Infrared absorption method and combustion titration method GB/T 13247 sampling and detection techniques ferroalloy product particle size (GB/T 13247-1991, neqISO 4551. 1987)

3.1 Grades and chemical composition

3.1.1

in terms of titanium and titanium-iron impurity content divided into 15 grades, chemical composition shall comply with the requirements in Table 1.

Table 1 Grades and chemical composition

Trademark

Chemical composition (mass fraction) /%														
Ti	C	Si	PS	Al	Mn	Cu	no greater than	FeTi30-A						
25.0 ~ 35.0	0.10	4.5	0.05	0.03	8.0	2.5	0.10	FeTi30-B	25.0 ~ 35.0	0.20	5.0	0.07	0.04	8.5
0.20								FeTi40-A	> 35.0 ~ 45.0	0.10	3.5	0.05	0.03	9.0
								FeTi40-B	> 35.0 ~ 45.0	0.20				
								FeTi50-A	> 45.0 ~ 55.0	0.10	3.5	0.05	0.03	8.0