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

中华人民共和国国家标准

GB/T 14978-2008

Replace GB/T 14978-1994

**Continuously hot-dip aluminium-zinc alloy coated
steel sheet and strip**

连续热镀铝锌合金镀层钢板及钢带

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Foreword

This Standard is revised for GB/T 14978-1994 *Continual hot-dip aluminium zinc silicon alloy coated steel strips and sheets* based on EN 10326: 2004 *Continuously hot-dip coated strip and sheet of structural steels —Technical delivery conditions* (English version), EN 10327: 2004 *Continuously hot-dip coated strip and sheet of low carbon steels for cold forming. Technical delivery conditions* (English version), EN 10143: 2006 *Continuously hot-dip coated steel sheet and strip- Tolerances on dimensions and shape* (English version) and AS 1394-2001 *Round steel wire for ropes* (English version).

This Standard will replace GB/T 14978-1994 *Continual hot-dip aluminium zinc silicon alloy coated steel strips and sheets*.

Comparison with GB/T 14978-1994, main changes of this Standard are as follows:

- Changed the standard title;
- Extended the range of dimension;
- Changed the stipulation on adhesion of coat;
- Added the stipulation on surface quality;
- Added the post-treatment method;
- Changed the stipulation on dimension, shape and permissible deviation;
- Added the calculation methods of theoretical weight;
- Added the comparison table of designation.

Annex A and B of this Standard are normative annex, Annex C and D is informative annex.

This Standard is proposed by China Iron and Steel Association

This Standard is under the jurisdiction of National Technical Committee on Iron and Steel of Standardization Administration of China.

The responsible drafting organization is Baosteel Co., Ltd.

The participate drafting organizations are Panzhihua Steel Group Co., Ltd, China Iron &

Steel Research Institute Group and China Metallurgical Information and Standardization Institute (CMIS).

The chief drafting staff of this standard includes Li Yuguang, Sun Zhongming, Xu Hongwei, Shi Hongyan, Wang Xiaohu, Tu Shulin, Yu Chengfeng, Xu Qing, Zhou Bo, Yu Gangqiang and Yu Dan.

This standard replaces the following historical editions issued:

— GB/T 14978-1994.

Continuously hot-dip aluminum-zinc alloy coated steel sheet and strip

1 Scope

This standard specifies the terms and definition, classification and code, dimension, shape, and weight, technical requirements, inspection and test, packaging, marking and quality certificate of continuous hot-dip aluminum zinc alloy coated steel sheet and strip (hereinafter referred to as steel sheet and steel strip).

This standard applies to steel sheet and steel strip with a thickness of 0.30mm to 3.0mm and it is used in industries such as construction, household appliance, electrical and electronic, automobile.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 223.5 Steel and iron - Determination of acid-soluble silicon and total silicon content - Reduced molybdate spectrophotometric method

GB/T 223.16 Methods for chemical analysis of iron, steel and alloy The chromotropic acid photometric method for the determination of titanium content

GB/T 223.17 Methods for chemical analysis of iron steel and alloy; The dianthylmethane photometric method for the determination of titanium content

GB/T 223.59 Iron steel and alloy - Determination of phosphorus content - Bismuth phosphomolybdate blue spectrophotometric method and antimony phosphomolybdate blue spectrophotometric method

GB/T 223.60 Methods for chemical analysis of iron, steel and alloy The perchloric acid dehydration gravimetric method for the determination of silicon content

GB/T 223.63 Methods for chemical analysis of iron, steel and alloy; The sodium (potassium) periodate photometric method for the determination of manganese content

GB/T 223.64 Iron steel and alloyed - Determination of manganese content - Flame atomic

absorption spectrometric method

GB/T 228 Metallic materials--Tensile testing at ambient temperature

GB/T 247 General rule of package mark and certification for steel plates (sheets) and strips

GB/T 2975 Steel and steel products--Location and preparation of test pieces for mechanical testing

GB/T 4336 Standard test method for spark discharge atomic emission spectrometric analysis of carbon and low-Alloy steel (routine method)

GB/T 1839 Test method for gravimetric determination of the mass per unit area of galvanized coatings on steel products

GB/T 8170 Rules of rounding off for numerical values & expression and judgement of limiting values

GB/T 17505 Steel and steel products General technical delivery requirements

GB/T 20123 Steel and iron—Determination of total carbon and sulfur content Infrared absorption method after combustion in an induction furnace (routine method)

GB/T 20125 Low-alloy steel - Determination of multi-element contents - Inductively coupled plasma atomic emission spectrometric method

GB/T 20126 Unalloyed steel -- Determination of low carbon content -- Part 2: Infrared absorption method after combustion in an induction furnace (with preheating)

GB/T 20066 Steel and iron-- Sampling and preparation of samples for the determination of chemical composition

3 Terms and definitions

For the purpose of this standard, the following terms and definitions shall apply.

3.1

Hot-dip aluminum-zinc alloy coating

The coating material produced by continuous hot-dip aluminum zinc production line is made from zinc alloy. The mass fraction of aluminum in the coating is about 55%, that of silicon about 1.6% and the rest is zinc.

3.2

Stretcher strain marks

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