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

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

(English Translation)

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1 Scope

This Standard specifies the terms and definitions, classification and code, size, appearance, weight, technical requirements, inspection and test as well as package, mark and quality certificate of continuously hot-dip aluminum-zinc alloy coated steel sheet and strip (hereinafter referred to as "steel sheet and strip").

This Standard is applicable to the steel sheet and strip with thickness of

0.30mm~3.0mm mainly used for building, home appliances, electronics and automobile industry.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute the provisions of this Standard. For the dated reference, the subsequent amendments (excluding corrigendum) or revisions of these publications do not apply.

However, all parties who enter into an agreement according to this Standard are encouraged to study whether the latest edition of these documents is applicable. For undated references, the latest edition of the document referred to applies.

GB/T 223.5 Methods for Chemical Analysis of Iron, Steel and Alloy - The Reduced Molybdenosilicate Spectrophotometric Method for the

Determination of Acid-soluble Silicon Content

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 Diantipyrylmethane Photometric Method for the Determination of Titanium Content

3 Terms and Definitions

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

3.1

Hot-dip aluminum-zinc alloy coating

Coating produced in continuously hot-dip aluminum-zinc production line and made of aluminum-zinc alloy; mass fraction of aluminum in coating is about 55%; mass fraction of silicon is about 1.6%; other ingredient is zinc.

4.1 Designation naming method

The code of steel sheets and strips consist of product use code, steel grade character (or serial number), steel grade characteristic (if any), hot-dip code (D) and coating type code; hot-dip code (D) and coating type code are connected with "+". Detailed provisions are as follows.

4.1.1 Use code

- a) DX. the first letter D represents flat steels for cold forming; if the second letter is X, it represents that there is no requirement for the rolled condition of base-plate; if the second letter is C, it represents that cold-rolled base-plate is required; if the second letter is D, it represents that hot-rolled base-plate is required;
- b) S. represents structural steels.

4.3 The designation of steel sheets and strips AND the steel grade characteristic shall be in accordance with those specified in Table 1.

4.4 The surface quality classification of steel sheets and strips shall be in accordance with those specified in Table 2.

5 Ordering Information

The user shall provide the following information when ordering.

6 Dimension, Appearance, Weight and Permissible Deviation

6.1

The nominal dimension of steel sheet and strip shall be in accordance with those specified in Table 4. After negotiation between the Supplier and the Purchaser, other dimensions and specifications of steel sheets and strips may also be provided.

6.3

The dimension, appearance permissible deviation of steel sheet and strip shall meet the provisions in Appendix A.

6.4

Steel plate is generally delivered according to the theoretical weight or actual weight; the calculation method of theoretical weight shall meet provisions in Appendix

B. Steel strip shall generally be delivered according to actual weight.

7.1 Chemical composition

Reference values of chemical composition (smelting analysis) are detailed in

Appendix C. If the Purchaser has any requirement for chemical composition, it shall be negotiated in ordering.

7.2 Smelting method

The steels for steel sheets and strips shall be smelted by oxygen converter or electric furnace; unless otherwise specified, the smelting method shall be chosen by the Supplier.

7.4 Mechanical property

7.4.1

The mechanical property of steel sheets and strips shall be in accordance with those specified in Tables 5 and Table 6. Unless otherwise specified, the tensile sample shall be coated.

7.5 Tensile strain marks

For DX51D+Z, DX51D+ZF, DX52D+Z and DX52D+ZF steel sheets and strips in Table 5, it shall be guaranteed that no stretcher strain marks appear in use within 1 month after manufacturing; for steel sheets and strips with other designations in Table 5, it shall be guaranteed that no tensile strain marks appear in use within 6 months after manufacturing. For steel sheet and strip specified in Table 6, its tensile strain marks shall not be required.

7.6 The coating adhesiveness shall be tested by proper test method which is subject to the choice of the Supplier.

7.7 Coating weight

7.7.1

The scope of supplied nominal coating weight is 60g/m²~200g/m². After negotiation between the Supplier and the Purchaser, other coating weight can also be provided.

7.8 Coating surface structure

7.8.1

The coating surface structure of steel sheets and strips shall be in accordance with those specified in Table 8.

7.10 Surface quality

7.10.1

The surface of steel sheets and strips shall be free from defects such as skip plating, fall-off coating and visible cracks that affect their use. Tiny zinc coating cracks and white edges are allowed to exist on the sides of non-trimmed steel strips.

8.1 The inspection item, sample quantity, sampling method, sampling position and

test method of each batch of steel sheets and strips shall be in accordance with those specified in Table 10.

8.2 The surface quality of steel sheets and strips shall be inspected by naked eyes.

8.5 The re-inspection of steel sheets and strips shall be in accordance with those specified in GB/T 17505.