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

GB/T 22316-2008

Test methods of corrosion resistance for electrolytic tinplate

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Foreword

This standard is a reference to the American Society for Testing and Materials ASTM A623M-06a "Standard Specification for General tinplate" Appendix A2 "plating Tin plate pickling Delay measurement method ", Appendix A3 "determination of tin plate, tin plating grain size ", Appendix A4 "Tinplate of iron dissolution measuring Party Galvanic tin developed test methods "on the basis of - Tinplate alloy method" and Appendix A5 ". The standard proposed by China Iron and Steel Association. This standard is under the jurisdiction of the National Steel Standardization Technical Committee. This standard was drafted. Baoshan Iron & Steel Co., Ltd., Metallurgical Industry Information Standards Institute. The main drafters of this standard. Tianhui Ling, Li Lei, Zhuzai Ping, Zhang Jiaqi Zhou Xing, Feng Chao, Rencui Ying, Wang Junxiang. Corrosion-resistant steel sheet tin plating Test Method

1 Scope

GB/T 22316-2008 is the Chinese national standard on test methods of corrosion resistance for electrolytic tinplate, in the field of metallurgy. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 19 August 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2009. Classification: ICS 77.040.99, CCS H25. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard applies to the amount of tin-sided specification of not less than 2.8g/m² of tin-plated steel - Determination of resistance corrosion. Including electroplating Tin steel pickling time delay test method, determination of the value of the dissolution of iron, tin and alloys grain size determination - tin galvanic test methods.

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.

GB/T 2520 tin plated cold-rolled steel sheet (GB/T 2520-2000,

ISO 11949.1995, Cold-reduced electrolytic tinplate, MOD)

GB/T 6394 metal average grain size determination method (

GB/T 6394-2002, ASTM E112-96, Standard test methods for determining average grain size, MOD)

GB/T 8170 numerical rounding rules

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 PLV Tin-plated steel sheet was immersed in an acid solution after the tin off a certain temperature and in a certain concentration, determined to stabilize the rate of dissolution of iron (or hydrogen Analysis Out speed) before the time elapsed.

3.2 ISV A certain area of the sample is immersed in the tin plating solution of the test at a given temperature, the time period measured after the reaction of iron dissolved out content.

3.3 TCS Tin tin plated steel surface grain size classes.

3.4 ATC Pure tin electrodes and tin plated steel sheet tin alloy electrode is exposed to a special degassed electrolyte, at a certain temperature through a Given reaction time, measuring the flowing current between the two electrodes.