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PEOPLE'S REPUBLIC OF CHINA**

GB/T 24298-2009

Standard test method for cross curvature of thermostat metals

热双金属横向弯曲试验方法

(English Translation)

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Foreword

This standard ASTMB478. 1985 "Thermal bimetallic transverse bending test method" (2003 review confirm) to modify the degree of consistency use. This standard is based on ASTMB478. 1985 (R2003) redrafted. The standard lists the reg number in Appendix A and ASTMB478. 1985 reg control list numbered.

This standard ASTMB478. 1985 (R2003) compared to the main technical differences are detailed in Appendix C.

--- To facilitate the use of standards, increased lateral bending radius of curvature of the formula;

--- To meet the environmental conditions of the laboratory, the test temperature from 24 °C $\pm$ 0.5 °C adjusted to 24 °C $\pm$ 2 °C.

For ease of use, for ASTMB478. 1985 standard also made the following editorial changes.

--- Provided in Chapter 2, "Normative references";

--- The ASTMB478. 1985 (R2003) for "term" is no longer listed, direct reference to GB/T 2900.4 "Electrotechnical Terminology Electrical Alloy";

--- Remove the standard use of little significance, "the meaning and application", "sampling" and "keywords" content such as chapters;

--- Removed ASTMB478. 1985 (R2003) Chapter 11, an increase of Appendix B.

This standard Annex A, Annex B, Annex C is informative appendix.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the National Standardization Technical Committee for Electrotechnical alloy (SAC/TC228) centralized.

This standard was drafted. Foshan Electrical Precision Alloy Co., Ltd., Baoshan Iron & Steel Co., Ltd. Special Steel Branch, Shanghai Electric Power Bureau Engineering Materials Co., Ltd., Shanghai Electric Co., Ltd. and transport, Guilin Institute of Electrical Science.

1 Scope

This standard specifies thermal bimetal strip lateral bending of the measuring method, measuring apparatus, sampling, sample preparation and calculation formulas and the like.

This standard applies to the measurement of thermal bimetal curved transversely, also applicable to other materials lateral bending of accurate measurement.

This standard does not address all of the safety elements contents before using this standard, the user has the responsibility to develop appropriate security regime.

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 2900.4 Electrotechnical terminology - Electrical Alloy

3 Terms and Definitions

Terms and definitions GB/T 2900.4 established apply to this standard.

4 Measuring principle

Lateral bending measurements is shown in Figure 1. measurement of thermal bimetal sample the entire width (L) from the plane deviation (chord C). The sample was put on the pad dedicated measurement apparatus, convex upward, with a depth micrometer to measure the highest point of the sample to the pad plane distance meter by formula Operators obtain lateral bending and lateral bending radius of curvature of the specimen.

Note: Under normal circumstances, the highest point in the center of the specimen at (or near).

FIG. 1 a schematic cross-curvature measurement method

5.1 Fixtures

Typical measurement of lateral bending fixture structure diagram shown in Figure 2, the device consists of a base reference plane, brackets, rails, depth micrometer, flat and electrical contact pad row pointer constituted on the end face of the base as the reference

plane, it is above the moving rail, the rail and the reference plane parallel to the track A movable track assembly bracket.

Depth of 5.2 micrometer Minimum scale value should be less than 0.002mm, the measurement should be made spherical rod end or tip, is fixed to the mobile holder can guide Looking to move on the highest point of the specimen along the specimen width direction.