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

GB/T 23310-2009

**Aromatic polyimide tape wrapped rectangular copper wire,
class 240**

240级芳族聚酰亚胺薄膜绕包铜扁线

(English Translation)

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Foreword

This standard is equivalent to IEC 60317-44.:1997 "Special Winding Wire Product Standard Part 44. Class 240 Aromatic Polyimide Film Wrapped copper flat wire "first edition (English version).

For ease of use, this standard has been modified as follows.

- the preamble and introduction to IEC 60317-44.:1997 were deleted;
- replace the comma as a decimal point with a decimal point. "
- an increase of 3.3 "appearance" and Chapter 23 "pinhole";
- Added in Chapter 15 the use of flat wire samples for temperature index test requirements.

This standard is equivalent to the use of IEC 60317-44.:1997 amended the original editorial error as follows.

- change the "softening breakdown" in Chapter 10 from "not applicable" to "test requirements are under consideration";
- change the "hot bonding or solvent adhesion" in Chapter 18 to "hot bonding".

This standard is proposed by China Electrical Equipment Industry Association.

This standard by the National Wire and Cable Standardization Technical Committee (SAC/TC213) centralized.

This standard is responsible for drafting units. Shanghai Cable Research Institute.

This standard participates in the drafting unit. Shanghai Shenmao Electromagnetic Wire Factory, Jiangsu Haowei Fu Group Co., Ltd., Jiangsu Shengang Electromagnetic Wire Co., Ltd.

Tin tin tin Electromagnetic Wire Co., Ltd., Sichuan Jinrui Electrician Co., Ltd., Shenyang Hongyuan Electromagnetic Wire Co., Ltd., Zhejiang Honglei Copper Group Co., Ltd., Wuxi

Huanyu Electromagnetic Wire Co., Ltd., Jiangsu Schindler Electromagnetic Wire Co., Ltd.,
Zhejiang Hongbo Cable Co., Ltd.

1 Scope

This standard specifies the requirements of the 240 grade aromatic polyimide film wrapped copper flat wire, which is insulated by one or two layers of polyimide film with composition.

The 240 grade indicates the heat level, which requires a minimum temperature index of 240 and a thermal shock temperature of at least 260 ° C.

Note: Some countries, such as Canada, Russia and the United States, are 220.

Film with a single or double-sided coated with a suitable binder, such as perfluoroethylene propylene. After the film is wrapped, it can form continuous and bond by sintering of the jacket.

Special requirements may be specified in the contract.

The Celsius temperature corresponding to the temperature index is not the recommended winding line temperature, as this depends on the type of equipment used Many factors within.

The nominal size of the conductors to which this standard applies is.

--- width. minimum 2.00mm, maximum 16.00mm;

--- Thickness. minimum 0.80mm, maximum 5.60mm.

The combination of width and thickness and the width/thickness ratio are specified in GB/T 7095.1-2008.

When referring to the products covered by this standard, the following should be given.

--- GB number and/or IEC number;

--- Nominal size of conductor (width x thickness);

---level.

Example. GB/T 23310-2009 1.00mm x 4.00mm A2 grade or IEC 60317-44 4.00mm x 1.00mm gradeA2

2 Normative reference documents

The terms of the following documents are hereby incorporated by reference into this standard. Whichever is the date of the reference file, which is followed by all (Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard Whether you can use the latest version of these files. For undated references, the latest edition applies to this standard.

GB/T 321-2005 Number of priority and priority (ISO 3. 1973, IDT) GB/T 4074.1-2008 Winding wires - Test methods - Part 1. General provisions (IEC 60851-1.:1996, IDT) Test methods for winding wires GB/T 4074.2-2008 - Part 2. Dimensions measurement (IEC 60851-2.:1997, IDT) Test methods for winding wires GB/T 4074.3-2008 - Part 3. Mechanical properties (IEC 60851-3.:1997, IDT) GB/T 4074.4-2008 Test methods for winding wires - Part 4. Chemical properties (IEC 60851-4.:2005, IDT) Test methods for winding wires GB/T 4074.5-2008 Part 5. Electrical properties (IEC 60851-5.:2004, IDT) GB/T 4074.6-2008 Winding wires - Test methods - Part 6. Thermal performance (IEC 60851-6.:1996, IDT) GB/T 4074.7-2009 Winding wires - Test methods - Part 7. Test methods for determining the temperature index of enamel winding wires (IEC 60172. 1987, IDT) GB/T 7095.1-2008 Enamelled copper flat winding wires - Part 1. General requirements (IEC 60317-0-2.:2005, IDT)

3.1 Terms and definitions

The following terms and definitions apply to this standard.

GB/T 23310-2009/IEC 60317-44.:1997