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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 14450-2008

Replace GB/T 14450-2004

Bead wire

胎圈用钢丝

(ISO 16650: 2004, MOD)

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Standardization Administration of the People's Republic of China

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Foreword

This standard is modified in relation to ISO 16650: 2004 *Bead Wire* (English Edition) Annex B listed a comparison chart between the national standard chapter and sub-clause number and ISO 16650 chapter and sub-clause number, Annex C provided a comparison chart about the technical differences and its reasons between this standard and ISO 16650: 2004 *Bead Wire* (English Edition).

This standard replace GB/T 14450—2004 *Bead Wire*. The main technological differences between this Standard and GB/T 14450—2004 *Bead Wire* are as follows:

- Cancelled the marking sample;
- Cancelled the table 2;
- Modified the classification of the steel wire tenacity level and the data of extension tenacity;
- Modified the steel wire yield ratio;
- Cancelled the red copper section in table 5;
- Modified bronze plating thickness and added to the reference weight in table 6;
- Not recommend to use red copper.

Annex A of this Standard is normative, while Annex B and Annex C is informative.

This standard is proposed by China Electrical Equipment Industrial Association.

This Standard is under the jurisdiction of the National Steel Standardization Technical Committee.

This Standard is mainly drafted by the following units: Zhejiang Tianlun Group Co., Ltd., Guizhou Steel Rope (Group) Co., Ltd., Shandong Zhucheng Daye Metal Products Co., Ltd., TianMao group Shandong Tianlun Steel Wire Co., Ltd., China Metallurgical Information and Standardization Institute, and Zhangjiagang Gangda Metal Products Co., Ltd.

The main drafters of this Standard are: Hu Jianlin, Wang Jinwu, Wang Lingjun, Chen Yongjun, Yang Yinghong, Zeng Guozhen, Dai Shifeng.

>This standard was first issued in 1993 and has its first revision in 2004.

Bead wire

1 Scope

This Standard specifies the classification code, dimensions, appearance, weight, allowable deviation, order contents, technical requirements, test methods, inspection rules, packaging, marking and quality certificate of tempering steel wire for bead wire.

This standard is applicable to carbon round steel wire (hereinafter referred to as wire) used in tire bead wire tendon.

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 228 Metallic materials--Tensile testing at ambient temperature (GB/T 228-2002, eqv ISO 6892: 1998)

GB/T 239 Metallic materials wire torsion test (GB/T 239-1999, eqv ISO 7800: 1984, ISO 9649: 1990)

GB/T 2103-1988 General provisions for checking, packing, marking and quality certification of steel wire

YB/T 135 Copper coated steel wire——Test method for weight of copper coating and composition

YB/T 170.1 Non-alloy steel rods for conversion to wire--Part 1: General requirements

YB/T 170.2 Non-alloy steel rods for conversion to wire-Part 2: Specific requirements for general purpose wire rod

YB/T 170.4 Non-alloy Steel wire rod for conversion to wire -- Part4: Specific requirements for wire rod for special applications

3 Classification and code

3.1 According to the tenacity level the wire is divided into two kinds:

a) Regular tenacity NT



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