

ICS 77.140.65  
CCS H 49



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

**GB/T 21073-2007**

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**Epoxy-coated seven-wire prestressing steel strand**

环氧涂层七丝预应力钢绞线

**(English Translation)**

**Issued on: August 14, 2007**

**Implemented on: March 1, 2008**

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**Issued by: Standardization Administration of China**

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### Foreword

This revised standard adopts ISO 14655:1999 "epoxy-coated strand for prestressed concrete", lists a standard article in Appendix B A list of funds and control international standard clauses.

Due to the actual requirements of the provisions of the relevant norms and industry standards at the time of the adoption of international standards has been modified. These technical A single vertical line identifies the differences in the terms they are involved in the margin. This standard and the corresponding international standard ISO 14655:1999 is the control section in Appendix B. List of technical differences and the reasons given in Appendix C for reference.

14655 on the main technical content of ISO .1999 same, but the individual technical modification to the contents, the structure does not correspond exactly to write. this Standard ISO 14655:1999 was amended as follows.

- Filled epoxy coated strand coating thickness using ASTMA882/A882M. 04a provision that 380μm ~ 1140μm.
- Canceled 9.3mm, 10.8mm, 12.4mm and other specifications of the prestressing strand.
- Increase the Chapter 4, "Classification and Labelling."
- Increased Chapter 5, "ordering the content." Content --- Chapter 11 was adjusted to 9.1 and 9.2.
- Appendix A (normative) adjusted to 12.4 Chapters 11 and 12 of Chapter.
- Increased Chapter 12 12.1,12.2,12.3.
- Appendix B (normative) adjusted to Appendix A.
- Deleted Annex C (normative) and references.

Appendix A of this standard is a normative appendix, Appendix B and Appendix C are

informative appendices.

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. Jiangyin Fasten Sumiden New Materials Co., Ltd., Metallurgical Industry Information Standards Institute.

## Introduction

At the time of the issuing authority drew attention, users declare compliance with this standard may involve the use of 3.1, 4.1.1 a), 9.1.1, 9.2.2 on the contents related to licensed and pending patents.

The standard release mechanism for the patent scope, validity and verification of data is not made any comments.

Liren has patent issuing authority to ensure this standard, patent licensing Liren the national standard and any free implementation of its special Lee. The statement has been given to this patent Liren standard release authority.

Liren patent related information.

Patent Win. Jiangsu Fasten Nippon Steel Cable Co., Ltd.

Address. Jiangyin City, Jiangsu Province town of Juan soil Cheng Chang Development (214 445) Contact. Xu Qin-Hua Email. nick\_xqh @ yahoo. com. cn Phone. 0501-86656500 Fax. 0150-86656828 Please note that in addition to the already identified patents, some of the content of this standard may involve patents. The standard release mechanism does not bear Bear the responsibility to identify these patents.

Epoxy coating seven wire prestressing steel strand

## 1 Scope

This standard specifies the fusion bonding of filled epoxy coating and painting seven wire prestressing steel strand of classification and labeling, order contents, timber Material, coating pre-treatment of steel strand, applying a coating of technical requirements to allow coating damage and damage repair coatings, test methods, Inspection rules, packaging, marking and quality certification.

This standard applies to prestressed works, especially corrosion require a higher prestressing strand, including in vivo pre-stressed strand, pre-vitro Stress strand ground anchorage of prestressing strand cable and cable-stayed bridge, etc., does not apply to the type of monofilament spraying epoxy coating pre Stress strand.

## 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 228 metal materials at room temperature tensile test method (GB/T 228-2002, eqv ISO 6892:1998) GB/T 5224 prestressed concrete strand (GB/T 5224-2003, ISO 6934-4:1991, NEQ) GB 8923 before painting steel surface rust grades and preparation grades (GB 8923-1988, eqv ISO 8501-1. 1988) GB/T 10125 artificial atmosphere corrosion test salt spray test (GB/T 10125-1997, eqv ISO 9227:1990) GB/T 13452.2 Paints and varnishes - Determination of film thickness (GB/T 13452.2-1992, idt ISO 2808. 1974) ISO 6272-2 Paints and varnishes - Rapid - deformation (impact resistance) test

## 3 Terms and Definitions

The following terms and definitions apply to this standard.

The outer layer from the melt bonded epoxy coating is applied, the gap between the wire so as to prevent the melt bonded epoxy coating completely filled with corrosive media through by capillary force or other hydrostatic invasion seven wire prestressing steel strand.

Bonded epoxy coating from the melt surface coating seven wire prestressing steel strand.

**Note:** This standard will be "filled with epoxy coated strand" and "paint-type epoxy coated strand" are collectively referred to as "epoxy coated strand." Unspecified "filled epoxy Coated strand "or" paint-type epoxy coated strand "instead of" epoxy coated strand "is expressed both required.

Fusion bonding epoxy coating and loss of adhesion between the strand.

Gold containing pigment, a thermosetting epoxy resin, a crosslinking agent and other paint additives, in powder form and coated on a clean pre-heated it belongs to the matrix, forming a continuous melt coating.