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

GB/T 25826-2022

Replacing GB/T 25826-2010

Epoxy-coated steel for the reinforcement of concrete

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

drafted.

This document replaces GB/T 25826-2010 "Epoxy-coated steel bars for reinforced concrete", compared with GB/T 25826-2010, except for the

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed the requirements for pre-coating treatment (see 6.2.1, 6.2.1 of the.2010 edition);
- Increased the coating thickness index requirements for steel bars with different diameters (see 6.4.1);
- Changed the coating continuity and tightened appropriately (see 6.4.2.2, 6.4.2.2 of the.2010 edition);
- Changed the expression method of epoxy coating steel bending test (see 7.3, 7.3 of the.2010 edition);
- Changed the process control inspection items (see 8.3.1, 8.2.1 of the.2010 edition);
- Added specific requirements for handling of coated steel bars (see 9.2);
- Changed the surface contamination detection method (see C.1.7, A.2.7 of the.2010 edition).

This document is modified to adopt ISO 14654.1999 "Epoxy-coated steel for reinforced concrete".

Compared with ISO 14654.1999, this document has many adjustments in structure. For the comparison list of structure numbers between the two documents, see

Appendix A.

Compared with ISO 14654.1999, this document has many technical differences. In the outer margins of the clauses involved, vertical

A single line (|) is marked. See Appendix B for a list of these technical differences and their reasons.

The following editorial changes have been made to this document.

- Change the standard name to "Epoxy Coated Steel Bar for Reinforced Concrete";
- Deleted the note in 4.1 of ISO 14654.1999;
- Deleted the note to Chapter 6 in ISO 14654.1999;
- Deleted A.2 in Appendix A of ISO 14654.1999;
- Deleted C.1, C.2, C.3 in Appendix C of ISO 14654.1999;
- Deleted Annex D of ISO 14654.1999;
- Deleted the "references" of ISO 14654.1999.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the classification code, order content, technical requirements, and tests of fusion-bonded epoxy-coated steel bars and finished steel bars for concrete

Methods, inspection rules, packaging, marking and quality certificates.

This document applies to rebar processed before and after coating and to finished rebar processed before coating.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 1499.1 Steel for Reinforced Concrete Part 1.Hot Rolled Round Bars

GB/T 1499.2 Steel for Reinforced Concrete Part 2.Hot Rolled Ribbed Bars

GB/T 1499.3 Steel for Reinforced Concrete Part 3.Reinforced Welded Mesh

GB/T 1768 Paint and Varnish Determination of Abrasion Resistance Rotating Rubber Grinding Wheel Method (GB/T 1768-2006, ISO 7784-2.

1997, IDT)

GB/T 2101 General requirements for acceptance, packaging, marking and quality certificate of shaped steel

GB/T 3505-2009 Product Geometric Specifications (GPS) Terms, Definitions and Surface Structure Parameters of Surface Structure Profile Method

(ISO 4287.1997, IDT)

GB/T 8923.1-2011 Visual assessment of surface cleanliness of steel surface treatment before application of paint - Part 1.Uncoated

The rust grade and treatment grade of the steel surface and the steel surface after comprehensive removal of the original coating (ISO 8501-1.2007, IDT)

GB/T 13452.2-2008 Determination of film thickness of paints and varnishes (ISO 2808.2007, IDT)

GB/T 13788 Cold-rolled ribbed steel bars

GB/T 20624.2-2006 Paints and varnishes - Rapid deformation (impact resistance) test - Part 2.Drop weight test (small area impact

header) (ISO 6272-2.2002, IDT)

GB/T 50152 Test method standard for concrete structures

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Coated steel bar coatedbar

Fusion bonding epoxy-coated rebar, welded mesh and finished rebar.

3.2

Pre-coating conversioncoating

Pre-treatment of metal surfaces prior to coating to promote coating adhesion, corrosion resistance and blister resistance.

3.3

strip disbonding

Bond failure between fusion bonded epoxy coating and rebar surface.

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