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JG

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

JG/T 502-2016

Replacing JG 3042-1997

**Epoxy resin coated steel reinforcing bars
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is the revision of JG 3042-1997 "epoxy coated steel", compared with the main technical changes JG 3042-1997 are as follows.

- Range increased galvanized epoxy coated steel;
- Increased the classification of epoxy coated steel;
- Increasing the requirements of epoxy resin powder;
- Increasing the requirements of zinc alloy;
- For the steel surface purification quality of the technical indicators to the residual amount of iron oxide surface cleanliness of the project, an increase of surface contamination Item
- For the coated steel coating, an increase of galvanized epoxy coating steel galvanized epoxy coating related technical indicators, an increase of wet attachment Strength, electrical strength, volume resistivity and other technical indicators and related test

methods; improve the cathode peeling, impact resistance and other technical means Standard; revised chemical resistance test method;

--- For the coating repair material, eliminating the cathode peeling, coating bendability, coating steel bond strength, wear resistance and impact test Technical indicators, an increase of containers in the state of technical indicators, modified resistance to chloride permeability, salt spray resistance and chemical resistance Technical indicators, and modify the corresponding test methods;

--- For the coated steel, an increase of galvanized epoxy-coated steel related technical indicators; improve the coating continuity, and concrete relative viscosity the strength of the technical indicators; increased appearance, porosity, coating adhesion indicators and related test methods; modified coating thickness technology Indicators and test methods of relative bond strength between coated steel bar and concrete;

--- Modify the test classification, group rules, factory inspection items and type test items.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction Building Standardization Technical Committee centralized.

1 Scope

This standard specifies the terminology and definition of epoxy resin coated rebar, classification and marking, materials, requirements, test methods, inspection rules and standards Log, packaging, transportation and storage.

This standard applies to reinforced concrete epoxy coated steel bar and galvanized epoxy coated steel.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 470 zinc ingots GB/T 1408.1 Insulating material electrical strength test methods - Part 1. Power frequency test GB/T 1410 solid insulating materials volume resistivity and surface resistivity test methods GB 1499.1 steel for reinforced concrete - Part 1. Hot rolled round bars GB 1499.2 steel reinforced concrete - Part 2. Hot rolled ribbed steel GB/T 1499.3 steel for reinforced concrete - Part 3. welded steel mesh GB/T 1768 Paints and varnishes - Determination of abrasion resistance - Rotating rubber grinding wheel method GB/T 4472 Determination of chemical product density, relative density GB/T 8923.1 pre-painted steel surface treatment of steel visual assessment of surface cleanliness - Part 1. Uncoated steel

Surface and the full removal of the original coating steel surface corrosion level and treatment level Paints and varnishes - Determination of film thickness GB 13788 cold-rolled ribbed steel GB/T 16995 Thermosetting powder coatings at a given temperature Determination of gelling time GB/T 20624.2 Paints and varnishes rapid deformation (impact resistance) test - Part 2. Drop hammer test (small area punch) GB/T 21782.1 Powder coating - Part 1. Determination of particle size distribution by sieving GB/T 21782.7 Powder coatings - Part 7. Determination of mass loss during baking HG/T 3668-2009 zinc-rich primer JB/T 6570 Ordinary abrasive magnetic substance content determination method Technical Specification for Steel Pipe Fusing Epoxy Powder Overcoats SY/T 0315-2013 YS/T 310 hot dip zinc alloy ingot

3 Terms and definitions

The following terms and definitions apply to this document.

Surfaces are fused and epoxy-bonded bars and finished bars, including epoxy-coated rebar and galvanized epoxy-coated rebar.