

ICS 25.220.99

CCS A 29



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

GB/T 35490-2025

Replacing GB/T 35490-2017

**Coating corrosion control technology for prestressed concrete
cylinder pipe**

预应力钢筒混凝土管涂层腐蚀控制技术

Issued on: December 2, 2025

Implemented on: July 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting is scheduled. This document replaces GB/T 35490-2017 "Corrosion Protection Technology for Prestressed Steel Cylinder Concrete Pipes". Compared with GB/T 35490-2017, Apart from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The content of "Scope" has been changed (see Chapter 1, Chapter 1 of the.2017 edition).
- b) The term "broken wire detection" and its definition (see 3.7 in the.2017 edition) have been removed, and the term "concrete cover" and its definition have been added. (See 3.7);
- c) Added "abbreviations" (see Chapter 4);
- d) The content of "Corrosion Protection Design" has been changed (see Chapter 5, Chapter 4 of the.2017 edition);
- e) The section on "Materials for Anti-corrosion Coating Systems" has been removed (see Chapter 5 of the.2017 edition).
- f) The content of "Painting Application" has been changed (see Chapter 6, Chapter 7 in the.2017 edition);
- g) The "Coating Performance Testing" section and its contents have been changed (see Chapter 7, Chapter 6 in the.2017 edition).
- h) The "Quality Control and Acceptance" section and its contents have been changed (see Chapter 8, Chapter 8 of the.2017 edition).
- i) The "Administration and Maintenance" section and its contents have been changed (see Chapter 9, Chapter 9 in the.2017 edition).
- j) The section on "Safety, Health and Environmental Protection" and its contents have been changed (see Chapter 10, Chapter 10 in the.2017 edition).

k) The contents of Appendix A have been changed (see Appendix A, Appendix A of the.2017 edition);

1 Scope

GB/T 35490-2025 is the Chinese national standard covering protecting PCCP - the steel cylinder and the prestressing wire inside a concrete pipe, where a handful of broken wires is enough to burst a main, and the coating and joint protection are what keep the chlorides away from them. It replaces GB/T 35490-2017. It was issued on 2 December 2025 and has been in force since 1 July 2026, replacing GB/T 35490-2017. The document is under the responsibility of the China Petroleum and Chemical Industry Federation. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 1266 Sodium Chloride Chemical Reagent

GB/T 1733-1993 Test method for water resistance of paint film

GB/T 1766 Rating Method for Aging of Paint and Varnish Coatings

GB/T 1865-2009 Paints and varnishes - Artificial weathering and artificial radiation exposure - Filtered xenon arc radiation

GB/T 5210-2006 Paints and varnishes - Pull-off adhesion test

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB 7691 Safety Regulations for Painting Operations - General Rules for Safety Management

GB/T 8923.1 Visual assessment of surface cleanliness of steel before coating - Part

1.Uncoated steel Rust level and treatment level of steel surface after complete removal of original coating.

GB/T 9265 Determination of Alkali Resistance of Architectural Coatings

GB/T 10125 Corrosion test under artificial atmosphere - Salt spray test

GB/T 11969 Test methods for the performance of autoclaved aerated concrete

GB/T 13288.1 Surface roughness characteristics of steel after blast cleaning following surface treatment before coating - Part

GB 50212 Construction Specification for Corrosion Protection Engineering of Buildings

GB/T 50726 Technical Standard for Corrosion Protection Engineering of Industrial Equipment and Pipelines

GB 55034 General Standard for Safety, Health and Occupational Health at Construction Sites (Building and Municipal Engineering) GBZ