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CCS K10



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

GB/T 21698-2022

Replacing GB/T 21698-2008

Composite grounding conductor

复合接地体

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Table of Contents

- 1 Scope
- 2 Resistivity test of metallic materials
- 3 Terms and Definitions

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 21698-2008 "Technical Conditions for Composite Grounding Body". Compared with GB/T 21698-2008, except for structural adjustment In addition to editorial changes, the main technical changes are as follows:

- Changed the name of the standard, from "Technical Conditions for Composite Grounding Body" to "Compound Grounding Body";
- Changed the scope of application of the standard (see Chapter 1, Chapter 1 of the.2008 edition);
- Changed the definition of the term "composite grounding body" (see 3.1, 3.1 of the.2008 edition);
- Delete the terms "electrolyte material (chemical filler)", "resistance reduction effect coefficient", "model coefficient" and "conductive rubber" (see the.2008 edition 3.2~3.5);
- Added the terms "resistance-reducing composite grounding body" and "anti-corrosion composite grounding body" (see 3.2, 3.3);
- Changed the product classification, deleted the model and meaning (see Chapter 4, Chapter 4 of the.2008 edition);
- Changed the requirements for appearance and size (see 5.1.1, 5.1 of the.2008 edition);
- Changed the requirements for the impact of products on the environment (see 5.1.2, 5.1 of the.2008 edition);
- Delete the requirements for electrolyte material, mechanical strength and conductive rubber properties (see 5.2, 5.4,

1 Scope

GB/T 21698-2022 is the Chinese national standard on composite grounding conductor, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 11 July 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2023. Classification: ICS 91.120.40, CCS K10. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Resistivity test of metallic materials

GB/T 6462 Metal and Oxide Covering Layer Thickness Measurement Microscopy

GB 6566 Limits of radionuclides in building materials

GB/T 10125 Artificial Atmosphere Corrosion Test Salt Spray Test

GB 15618 Soil Environmental Quality Agricultural Land Soil Pollution Risk Control Standard (Trial)

GB/T 16545 Corrosion of Metals and Alloys - Removal of Corrosion Products on Corrosion Specimens

GB/T 16927.1 High Voltage Test Technology Part

GB/T 2694-2018 Technical conditions for the manufacture of transmission line towers

GB/T 3048.2 Test methods for electrical properties of wires and cables - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 A grounding body composed of two or more main substances with different physical or chemical properties.

3.2 A composite grounding body that reduces the grounding resistance by improving the soil environment around the grounding body or increasing the contact area between the grounding body and the soil.

3.3 It has the characteristics of resisting the erosion of moisture, salt, acid, alkali and other factors in the operating environment, and is used to slow down the corrosion of the composite grounding body.