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

GB/T 42352-2023

**Metallic coatings - Physical vapour-deposited coatings of
cadmium on iron and steel - Specification and test methods**

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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 for Standardization Documents"

drafting:

This document is equivalent to ISO 22778:2006 "Technical Specifications and Tests for Physical Vapor Deposition Cadmium Coatings on Steel with Metal Coverings"

method":

Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the technical requirements for physical vapor deposition of high-purity cadmium coatings on steel, iron, and other base metals: This document describes

Test methods for coating performance requirements, and identification methods for cadmium coatings, chromate conversion coatings, and other subsequent treatments:

Cadmium coating is not suitable for the treatment of parts (parts) of products whose temperature reaches 225°C or higher during use, or which can be exposed to such temperatures

The situation of other parts (parts):

2 Normative references

The content in the following documents constitutes the essential provisions of this document through normalized references in the text: Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document:

Note: GB/T 6462-2005 Microscopic method for measuring the thickness of metal and oxide coatings (ISO 1463:2003, IDT)

Note: GB/T 12334-2001 Definitions and general rules for thickness measurement of metals and other non-organic coatings (ISO 2064:1996, IDT)

ISO 2080 Vocabulary for surface treatments of metals and other inorganic coatings (Metalicandother

Note: GB/T 3138-2015 Terminology for Surface Treatment of Metals and Other Inorganic Coatings (ISO 2080:2008, IDT)

ISO 2177 Metallic coatings - Measurement of coating thickness - Anodic dissolution coulometric method (Metaliccoatings-Measurementof

Note: GB/T 4955-2005 Measuring the thickness of metal coatings - Anodic dissolution coulometric method (ISO 2177:2003, IDT)

ISO 2360 Amplitude-induced eddy current method for thickness measurement of non-conductive coatings on non-magnetic conductive substrates (Non-conductivecoat-plitude-sensitiveeddy-current method)

Note: GB/T 4957-2003 Non-conductive coating on non-magnetic base metal Coating thickness measurement eddy current method (ISO 2360:1982, IDT)

ISO 2819 Review of test methods for adhesion of electrodeposited and chemically deposited layers of metallic coatings on metallic substrates (Metalic

Note: GB/T 5270-2005 Comments on test methods for adhesion strength of electrodeposited and chemically deposited layers of metal coatings on metal substrates (ISO 2819:

1980, IDT)