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

GB/T 41953-2022

**Paints and varnishes - Determination of water content of
coating materials - Gas-chromatographic method**

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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 23168.2019 "Gas Chromatography for the Determination of Moisture Content in Paints and Varnishes".

The following minimal editorial changes have been made to this document.

--- In order to coordinate with the existing standards, the name of the standard was changed to "Gas Chromatography for the Determination of Moisture Content in Paints and Varnish Coatings".

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 describes a method for the determination of the moisture content of waterborne paints and their raw materials using gas chromatography.

This document applies to the determination of moisture content in water-based paints. The preferred working range of this test method is that the mass fraction of moisture content is 15%~90%, but the method can also be used outside this range.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative 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.

(General method)]

often test samples)

Note. GB/T 20777-2006 Inspection and preparation of paint and varnish samples (ISO 1513.1992, IDT)

and test methods)

Note. GB/T 6682-2008 Analytical Laboratory Water Specifications and Test Methods (ISO 3696.1987, MOD)

ISO 4618 Paints and varnishes terms and definitions
(Paints and varnishes - Terms and definitions)

Note. GB/T 5206-2015 Paints and Varnishes Terms and Definitions (ISO 4618.2014, IDT)

ISO 15528 Paints, varnishes and paints and varnishes sampling of raw materials (Paints, varnishes and draw materials for

Note. GB/T 3186-2006 Paints, varnishes and sampling of raw materials for paints and varnishes (ISO 15528.2000, IDT)

3 Terms and Definitions

The terms and definitions defined in ISO 4618 and the following apply to this document.

ISO and IEC maintain terminology databases for standardization at the following addresses.

3.1

To be tested ready for use

According to the manufacturer's instructions, mix the product in the correct proportions and, if necessary, dilute with a suitable diluent to make the product

status can be tested by approved methods.

[Source. ISO 11890-2.2013, 3.4]