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Solvents for paints and varnishes - Demineralized water for industrial applications - Specification and test methods (ISO 23321:2019)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 23321

December 2020

ICS 87.040

English Version

Solvents for paints and varnishes - Demineralized water for industrial applications - Specification and test methods (ISO 23321:2019)

Solvants pour peintures et vernis - Eau déminéralisée pour l'application industrielle - Spécification et méthodes d'essai (ISO 23321:2019)

Lösemittel für Beschichtungsstoffe - Vollentsalztes Wasser für industrielle Anwendungen - Anforderungen und Prüfverfahren (ISO 23321:2019)

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European foreword

The text of ISO 23321:2019 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 23321:2020 by Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.

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Endorsement notice

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

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Solvents for paints and varnishes — Demineralized water for industrial applications — Specification and test methods

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1 Scope

This document specifies the properties and requirements for demineralized water used as solvent for paints and varnishes industrial applications, e.g. production of electro-deposition coating materials, water-based coating materials, water-based resins and plastics dispersions.

This document is not applicable to water for analytical use.

NOTE See ISO 3696.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*

ISO 4618, *Paints and varnishes — Terms and definitions*

ISO 10304-1, *Water quality — Determination of dissolved anions by liquid chromatography of ions — Part 1: Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate*

ISO 15091, *Paints and varnishes — Determination of electrical conductivity and resistance*

ISO 19396-1, *Paints and varnishes — Determination of pH value — Part 1: pH electrodes with glass membrane*

ISO 19396-2, *Paints and varnishes — Determination of pH value — Part 2: pH electrodes with ISFET technology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4618 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
demineralized water
water of which the mineral matter or salts have been removed by deionization

4 Requirements

Demineralized water used as a solvent for paints and varnishes for industrial applications shall conform to the requirements specified in Table 1.

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