

SLOVENSKI STANDARD

SIST EN ISO 591-1:2001

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Pigmenti titanovega dioksida za barve - 1. del: Specifikacije in metode preskušanja (ISO 591-1:2000)

Titanium dioxide pigments for paints - Part 1: Specifications and methods of test (ISO 591-1:2000)

Titandioxid-Pigmente - Teil 1: Anforderungen und Prüfverfahren (ISO 591-1:2000)

Pigments de dioxyde de titane pour peintures - Partie 1: Spécifications et méthodes d'essai (ISO 591-1:2000)

Ta slovenski standard je istoveten z: EN ISO 591-1:2000

ICS:

87.060.10

Pigmenti in polnila

Pigments and extenders

SIST EN ISO 591-1:2001

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 591-1

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English version

Titanium dioxide pigments for paints - Part 1: Specifications and methods of test (ISO 591-1:2000)

Pigments de dioxyde de titane pour peintures - Partie 1:
Spécifications et méthodes d'essai (ISO 591-1:2000)

Titandioxid-Pigmente - Teil 1: Anforderungen und
Prüfverfahren (ISO 591-1:2000)

This European Standard was approved by CEN on 15 September 2000.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

The text of the International Standard ISO 591-1:2000 has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 298 "Pigments and extenders", 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of an identical text or by endorsement, at the latest by March 2001, and conflicting national standards shall be withdrawn at the latest by March 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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The text of the International Standard ISO 591-1:2000 was approved by CEN as a European Standard without any modification. [SIST EN ISO 591-1:2001](https://standards.iteh.ai/catalog/standards/sist/ba6adc6e-a91e-4a3a-8e2c-018502e41596/sist-en-iso-591-1-2001)

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NOTE: Normative references to International Standards are listed in annex ZA (normative).

Annex ZA (normative)**Normative references to international publications
with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 787-2	1981	General methods of test for pigments and extenders - Part 2: Determination of matter volatile at 105 degrees C	EN ISO 787-2	1995
ISO 787-3	2000	General methods of test for pigments and extenders - Part 3: Determination of matter soluble in water - Hot extraction method	EN ISO 787-3	2000
ISO 787-5	1980	General methods of test for pigments and extenders - Part 5: Determination of oil absorption value	EN ISO 787-5	1995
ISO 787-9	1981	General methods of test for pigments and extenders - Part 9: Determination of pH value of aqueous suspension	EN ISO 787-9	1995
ISO 787-18	1983	General methods of test for pigments and extenders - Part 18: Determination of residue on sieve - Mechanical flushing procedure	EN ISO 787-18	1995
ISO 787-24	1995	General method of tests for pigments and extenders - Part 24: Determination of relative tinting strength of coloured pigments and relative scattering power of white pigments - Photometric methods	EN ISO 787-24	1995
ISO 1042	1998	Laboratory glassware - One-mark volumetric flasks	EN ISO 1042	1999
ISO 3696	1987	Water for analytical laboratory use - Specification and test methods	EN ISO 3696	1995

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INTERNATIONAL STANDARD

ISO
591-1

First edition
2000-09-15

Titanium dioxide pigments for paints — Part 1: Specifications and methods of test

Pigments de dioxyde de titane pour peintures —

Partie 1: Spécifications et méthodes d'essai

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 591 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 591-1 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 2, *Pigments and extenders*.

This part of ISO 591 cancels and replaces ISO 591:1977, which has been technically revised. In contrast to ISO 591:1977, which specified the Nakazono reductor method for the determination of the titanium dioxide content and allowed other methods to be used by agreement between the interested parties, ISO 591-1 contains two methods (see clause 7).

ISO 591 consists of the following parts, under the general title *Titanium dioxide pigments for paints*:

- *Part 1: Specifications and methods of test*
- *Part 2: Determination of the content of secondary constituents*

Titanium dioxide pigments for paints —

Part 1: Specifications and methods of test

1 Scope

This part of ISO 591 specifies the requirements and corresponding methods of test for titanium dioxide pigments for paints.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 591. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 591 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 385-1:1984, *Laboratory glassware — Burettes — Part 1: General requirements.*
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ISO 648:1977, *Laboratory glassware — One-mark pipettes.*

ISO 787-1:1982, *General methods of test for pigments and extenders — Part 1: Comparison of colour of pigments.*

ISO 787-2:1981, *General methods of test for pigments and extenders — Part 2: Determination of matter volatile at 105 °C.*

ISO 787-3:2000, *General methods of test for pigments and extenders — Part 3: Determination of matter soluble in water — Hot extraction method.*

ISO 787-5:1980, *General methods of test for pigments and extenders — Part 5: Determination of oil absorption value.*

ISO 787-9:1981, *General methods of test for pigments and extenders — Part 9: Determination of pH value of an aqueous suspension.*

ISO 787-14:1973, *General methods of test for pigments — Part 14: Determination of resistivity of aqueous extract.*

ISO 787-18:1983, *General methods of test for pigments and extenders — Part 18: Determination of residue on sieve — Mechanical flushing procedure.*

ISO 787-24:1985, *General methods of test for pigments and extenders — Part 24: Determination of relative tinting strength of coloured pigments and relative scattering power of white pigments — Photometric methods.*

ISO 787-25:1993, *General methods of test for pigments and extenders — Part 25: Comparison of the colour, in full-shade systems, of white, black and coloured pigments — Colorimetric method.*