

# SLOVENSKI STANDARD

## SIST EN ISO 7027-2:2019

01-maj-2019

Nadomešča:  
SIST EN ISO 7027:2000

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### Kakovost vode - Ugotavljanje motnosti - 2. del: Semikvantitativne metode za ocenjevanje prosojnosti vode (ISO 7027-2:2019)

Water quality - Determination of turbidity - Part 2: Semi-quantitative methods for the assessment of transparency of waters (ISO 7027-2:2019)

Wasserbeschaffenheit - Bestimmung der Trübung - Teil 2: Semi-quantitative Verfahren zur Beurteilung der Transparenz von Gewässern (ISO 7027-2:2019)

Qualité de l'eau - Détermination de la turbidité - Partie 2: Méthodes semi-quantitatives pour l'évaluation de la transparence des eaux (ISO 7027-2:2019)

Ta slovenski standard je istoveten z: **EN ISO 7027-2:2019**

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#### **ICS:**

13.060.60	Preiskava fizikalnih lastnosti vode	Examination of physical properties of water
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**SIST EN ISO 7027-2:2019**

**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 7027-2**

February 2019

ICS 13.060.60

Supersedes EN ISO 7027:1999

English Version

**Water quality - Determination of turbidity - Part 2: Semi-quantitative methods for the assessment of transparency of waters (ISO 7027-2:2019)**

Qualité de l'eau - Détermination de la turbidité - Partie 2: Méthodes semi-quantitatives pour l'évaluation de la transparence des eaux (ISO 7027-2:2019)

Wasserbeschaffenheit - Bestimmung der Trübung - Teil 2: Semi-quantitative Verfahren zur Beurteilung der Transparenz von Gewässern (ISO 7027-2:2019)

This European Standard was approved by CEN on 6 January 2019.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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## European foreword

This document (EN ISO 7027-2:2019) has been prepared by Technical Committee ISO/TC 147 "Water quality" in collaboration with Technical Committee CEN/TC 230 "Water analysis" 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 August 2019, and conflicting national standards shall be withdrawn at the latest by August 2019.

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

This document supersedes EN ISO 7027:1999.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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# INTERNATIONAL STANDARD

**ISO  
7027-2**

First edition  
2019-01

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## Water quality — Determination of turbidity —

### Part 2: Semi-quantitative methods for the assessment of transparency of waters

*Qualité de l'eau — Détermination de la turbidité —*

*Partie 2: Méthodes semi-quantitatives pour l'évaluation de la  
transparence des eaux*

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Reference number  
ISO 7027-2:2019(E)

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Published in Switzerland



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## ISO 7027-2:2019(E)

## 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html). (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 2, *Physical, chemical and biochemical methods*. [SIST EN ISO 7027-2:2019](https://standards.iteh.ai/catalog/standards/sist/4a818c4a-33ab-4284-a557-718865b891d5-iso-7027-2-2019)  
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Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

This first edition of ISO 7027-2, together with ISO 7027-1:2016, cancels and replaces ISO 7027:1999, which has been technically revised.

A list of all parts in the ISO 7027 series can be found on the ISO website.

## Introduction

Turbidity in waters is caused by the presence of undissolved and/or colloidal matter and small organisms (for example bacteria, phyto- and zooplankton) present in the water. Turbidity changes the lighting conditions in surface waters by absorption and scattering of the light and thus influences the trophic status of these waters. For the indicative assessment of the lighting conditions of waters or the transparency of the water, semi-quantitative methods can be used (Reference [2]).

Measurements of transparency can be affected by the presence of dissolved light-absorbing substances (substances imparting colour) as well as by particles (such as sediments).

In semi-quantitative methods such as the determination of transparency depth by Secchi disc, reflections on the water surface can cause interferences. These are often dependent on the light and wind conditions.

NOTE Results of a field study for the validation of this document is given in [Annex B](#).

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