SLOVENSKI STANDARD
SIST EN ISO 7027-1:2017

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Nadomešča:
SIST EN ISO 7027:2000

Kakovost vode - Ugotavljanje motnosti - 1. del: Kvantitativne metode (ISO 7027-1:2016)

Water quality - Determination of turbidity - Part 1: Quantitative methods (ISO 7027-1:2016)

Wasserbeschaffenheit - Bestimmung der Trübung - Teil 1: Quantitative Verfahren (ISO 7027-1:2016)

Qualité de l'eau - Détermination de la turbidité - Partie 1: Méthodes quantitatives (ISO 7027-1:2016)

Ta slovenski standard je istoveten z: **EN ISO 7027-1:2016**

ICS:

13.060.60	Preiskava fizikalnih lastnosti vode	Examination of physical properties of water

SIST EN ISO 7027-1:2017 **en,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 7027-1

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ICS 13.060.60

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English Version

Water quality - Determination of turbidity - Part 1: Quantitative methods (ISO 7027-1:2016)

Qualité de l'eau - Détermination de la turbidité - Partie 1: Méthodes quantitatives (ISO 7027-1:2016)

Wasserbeschaffenheit - Bestimmung der Trübung - Teil 1: Quantitative Verfahren (ISO 7027-1:2016)

This European Standard was approved by CEN on 15 April 2016.

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

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European foreword

This document (EN ISO 7027-1:2016) 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of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by December 2016.

This document supersedes EN ISO 7027:1999.

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

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 7027-1:2016 has been approved by CEN as EN ISO 7027-1:2016 without any modification.

INTERNATIONAL STANDARD

ISO 7027-1

First edition
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Water quality — Determination of turbidity —

Part 1: Quantitative methods

Qualité de l'eau — Détermination de la turbidité —

Partie 1: Méthodes quantitatives

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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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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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 147, *Water quality*, Subcommittee SC 2, *Physical, chemical and biochemical methods*.

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

ISO 7027 consists of the following parts, under the general title *Water quality — Determination of turbidity*:

— *Part 1: Quantitative methods*

The following part is under preparation:

— *Part 2: Semi-quantitative methods*

Introduction

Measurements of turbidity can be affected by the presence of dissolved light-absorbing substances (substances imparting colour). Such effects can be minimized, however, by performing measurements at wavelengths greater than 800 nm. Only carbon black and a blue colour, which can be found in certain polluted waters, slightly affects measurements of turbidity in this region of the spectrum. Air bubbles can also interfere with measurements, but such interference can be minimized by careful handling of the samples.

It is to be investigated whether and to what extent, particular problems will require the specification of additional marginal conditions.