

**Surgical instruments - Metallic Materials - Part
1: Stainless steel**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 7153-1:2001 sisaldab Euroopa standardi EN ISO 7153-1:2000 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 09.03.2001 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 7153-1:2001 consists of the English text of the European standard EN ISO 7153-1:2000.

This standard is ratified with the order of Estonian Centre for Standardisation dated 09.03.2001 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

ICS 11.040.30, 77.140.20

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English version

**Surgical instruments - Metallic Materials - Part 1: Stainless steel
(ISO 7153-1:1991, including Amendment 1:1999)**

Instruments chirurgicaux - Matériaux métalliques - Partie 1:
Acier inoxydable (ISO 7153-1:1991, Amendement 1:1999
inclus)

Chirurgische Instrumente - Metallische Werkstoffe - Teil 1:
Nichtrostender Stahl (ISO 7153-1:1991, einschließlich
Änderung 1:1999)

This European Standard was approved by CEN on 9 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.

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Foreword

The text of the International Standard from Technical Committee ISO/TC 170 "Surgical instruments" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 55 "Dentistry", 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of an identical text or by endorsement, at the latest by April 2001, and conflicting national standards shall be withdrawn at the latest by April 2001.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.

Endorsement notice

The text of the International Standard ISO 7153-1:1991, including Amendment 1:1999, has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

ISO
7153-1

Second edition
1991-04-01

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Surgical instruments — Metallic materials —

Part 1:
Stainless steel

Instruments chirurgicaux — Matériaux métalliques —

Partie 1: Acier inoxydable



Reference number
ISO 7153-1:1991(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.

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.

International Standard ISO 7153-1 was prepared by Technical Committee ISO/TC 170, *Surgical instruments*.

This second edition cancels and replaces the first edition (ISO 7153-1:1983); it has been extended to include dental instruments.

ISO 7153 consists of the following parts, under the general title *Surgical instruments — Metallic materials*:

- *Part 1: Stainless steel*

Future parts of ISO 7153 will cover other metallic materials.

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Surgical instruments — Metallic materials —

Part 1:

Stainless steel

1 Scope

This part of ISO 7153 contains a survey and a selection of stainless steels available for use in the manufacture of surgical, dental and specific instruments for orthopaedic surgery.

NOTE 1 When selecting the grade of steel and the shape, dimensions and delivery conditions of the raw material for manufacturing surgical instruments, it is necessary to take into account factors, such as the design of the instrument or the production facilities of the manufacturer, that are not covered by this part of ISO 7153. For this reason, it is not intended, nor is it possible, that the information given in this part of ISO 7153 should remove the decision-making responsibility from the instrument manufacturer for selecting an appropriate raw product with suitable properties; nor is it intended to preclude the use of other types of steel in the manufacture of instruments, such as the use of carbon steel for cutting instruments. International Standards for surgical instruments, when published, should be observed when making this decision as they may contain additional or new information to be taken into account when selecting appropriate steel grades.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7153. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 7153 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 683-13:1986, *Heat-treatable steels, alloy steels and free-cutting steels — Part 13: Wrought stainless steels*.

ISO 4957:1986, *Tool steels*.